ORDER NO. VED0112327C0S
D10

Service Manual

LCD Projector

PT-LC75U
PT-LC75E
PT-LC55U
PT-LC55E
PT-U1X65
PT-U1S65

Service Schematics

This publication consists of schematics for product identified in the schematics. It is not intended as a substitute for a service manual, which is available from MATSUSHITA in CD or print format. For proper repair instructions it is neccessary to consult the CD or print version of the full service manual.

Panasonic

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The service technician is required to read and follow the "Safety Precautions" and "Important Safety Notice" in this service manual.

Specifications

Power supply:
100 V - 240 V AC, 50 Hz / 60 Hz
Power consumption:
220 W [During standby (when fan is stopped): Approx. 2.0 W]
Amps:
2.8 A - 1.0 A
LCD panel:
Panel size (diagonal): 0.7 type (17.78 mm)
Aspect ratio: 4:3 (16:9 compatible)
Micro lens array:
PT-LC75U/E, U1X65: Available
PT-LC55U/E, U1S65: Not available
Display method: 3 transparent LCD panels (RGB)
Drive method: Active matrix method
Pixels:
PT-LC75U/E, U1X65: 786 432 (1 024 × 768) × 3 panels
PT-LC55U/E, U1S65: 480 000 (800 × 600) × 3 panels
Lens:
PT-LC75U/E, U1X65: F 1.7 - 1.9, f 21.5 mm - 25.8 mm
PT-LC55U/E, U1S65: F 2.0 - 2.3, f 22.0 mm - 26.2 mm
Lamp:
UHM lamp (160 W)
Luminosity:
1 200 lm/ANSI
Scanning frequency (for RGB signals):
Horizontal scanning frequency:
PT-LC75U/E, U1X65: 31 kHz - 91 kHz
PT-LC55U/E, U1X65: 31 kHz - 70 kHz
Vertical scanning frequency:
56 Hz - 87 Hz
Dot clock frequency:
Less than 100 MHz
YPBPR signals:
NTSC (480i), 480p, PAL (625i), 720p, HDTV60, HDTV50
Color system:
6 (NTSC / NTSC 4.43 / PAL / PAL-M / PAL-N / SECAM)
Projection size:
838 mm - 7 620 mm
Throw distance:
PT-LC75U/E, U1X65: 1.1 m - 10.7 m
PT-LC55U/E, U1S65: 1.1 m - 11.0 m
Optical axis shift:
6:1 (fixed)
Screen aspect ratio:
4:3
Installation:
Front / Rear / Ceiling / Desk (Menu selection method)
Speakers:
4.0 cm × 3.0 cm oval × 1
Max. useable volume output:
2 W (monaural)
Connectors:
RGB IN: Dual-line D-SUB HD 15-pin (female)
(One-line is available for input and output)
During YPBPR input/output:
Y: 1.0 V [p-p], 75 Ω
PBPR: 0.7 V [p-p], 75 Ω
During RGB input/output:
RGB: 0.7 V [p-p], 75 Ω
G.SYNC: 1.0 V [p-p], 75 Ω
HD / SYNC: TTL high impedance, automatic plus/minus polarity compatible
VD: TTL high impedance, automatic plus/minus polarity compatible
VIDEO IN: Single-line, RCA pin jack
1.0 V [p-p], 75 Ω
S VIDEO IN: Single-line, Mini Din 4-pin
Y 1.0 V [p-p], C 0.286 V [p-p], 75 Ω,
AUDIO IN: 0.5 V [rms] RCA pin jack × 2 (L-R)
Serial connector: D-sub 9p (female) RS-232C compatible
Cabinet:
Molded plastic (ABS / PC)
Dimensions:
Width: 310 mm
Height: 85.5 mm
Length: 243 mm (without lens cover)
Weight:
3.0 kg
Operating environment:
Temperature: 0° C - 40° C
(0° C - 35° C when operating in highlands)
Humidity: 20 % - 80 % (no condensation)
Certifications:
PT-LC75E/LC55E: EN60950, EN55022, EN61000-3-2, EN61000-3-3, EN55024
PT-LC75U/LC55U: UL1950, C-UL, FCC
PT-U1X65/U1S65: GB4943

<Remote control unit>

Power supply:
3 V DC (Lithium CR2025 battery × 1)
Operating range:
Approx. 7 m
(when operated directly in front of signal receptor)
Dimensions:
Width: 40 mm
Height: 6.5 mm
Length: 86 mm
Weight: 18 g (including battery)
Accessories:

Card remote control unit (TNQE239):	1
Lithium battery for remote control unit (CR2025):	1
Power cord:	
PT-LC75E/LC55E: K2CT3FZ00001 (U.K)	1
: K2CM3FZ00001 (continental)	1
PT-LC75U/LC55U: K2CG3FR00001	1
PT-U1X65/U1S65: K2CZ3FR00001	1
Video/Audio cable [K2KA2FA00001 (3.0 m)**]:**	1
Carrying bag (TPEP006):	1

Options:
Ceiling bracket: ET-PKC75
Wireless remote control unit: ET-RM100

- Specifications are subject to change without notice.
- Weight and dimensions shown are approximate.

⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Trademark Acknowledgements

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- Macintosh is a registered trademark of Apple Computer, Inc.
- S-VGA is a registered trademark of the Video Electronics Standards Association.
- Windows is a registered trademark of Microsoft Corporation.

All other trademarks are the property of the various trademark owners.

Precaution
If using of this projector at high elevations (above 1 400 m), consult your dealer or Authorized Service Center.
Special measures will be necessary to use this projector at high elevations, so consult your dealer or Authorized Service Center about preparations.
Failure to observe this may cause malfunctions.

For US

IMPORTANT SAFETY NOTICE

There are special parts used in Panasonic LCD Projectors which are important for safety. These parts are shaded on the schematic diagram. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire, or other hazards. Do not modify the original design without permission of PANASONIC BROADCAST & TELEVISION SYSTEMS COMPANY.

WARNING:
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate frequency energy and, if not installed and used in accordance with the instructions. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION: Any unauthorized changes or modifications to this equipment will void the users authority to operate.

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1 Schematic Diagram

Schematic Diagram for Model PT-LC75E / LC55E / U1X65 / U1S65

Important Safety Notice

Components identified by the international symbol ⚠ have special characteristics important for safety.When replacing any of these components, use only the manufacturer's specified ones.

Schematic Diagram for Model PT-LC75U /LC55U

IMPORTANT SAFETY NOTICE

THE SHADED AREA ON THIS SCHEMATIC DIAGRAM INCORPORATES SPECIAL FEATURES IMPORTANT FOR PROTECTION FROM FIRE AND ELECTRICAL SHOCK HAZARDS.
WHEN SERVICING, IT IS ESSENTIAL THAT ONLY MANUFACTURER'S SPECIFIED PARTS BE USED FOR THE CRITICAL COMPONENTS IN THE SHADED AREAS OF THE SCHEMATIC.

Notes:

1. **Resistor**
   All the resistors are carbon 1/4W resistors, unless marked as follows:The unit of resistance is an OHM [Ω] (K=1 000 M=1 000 000).
   - ○ : Nonflammable
   - ⊠ : Metal Oxide
   - △ : Solid
   - ◎ : Metal Film
   - ⊠ : Wire Wound
   - ⊗ : Fuse
2. **Capacitor**
   - ⊗ : Temperature Compensation
   - ⧺ : Electrolytic
   - Ⓜ : Polyester
   - NP ⧺ : Bipolar
   - ⓜ : Metalized Polyester
   - Ⓣ : Dipped Tantalum
   - ⊠ : Polypropylene
   - Ⓩ : Z-Type
3. **Coil**
   The unit of inductance is a μH, unless otherwise noted.
4. **Test Point**
   - ● : Test Point
5. **Voltage Measurement**
   The voltage is measured by an electronic voltmeter receiving the colorbar signal when all the customer's controls are set to the standard condition.
6. **Color code for the links between diagrams and circuit boards**

From/To		To/From	Color code
Block diagram	⟷	Schematic diagram	Magenta
Schematic diagram	⟷	Schematic diagram	Green
Schematic diagram	⟷	Circuit boards	Yellow
Schematic diagram	⟷	Waveforms	Cyan (Light blue)

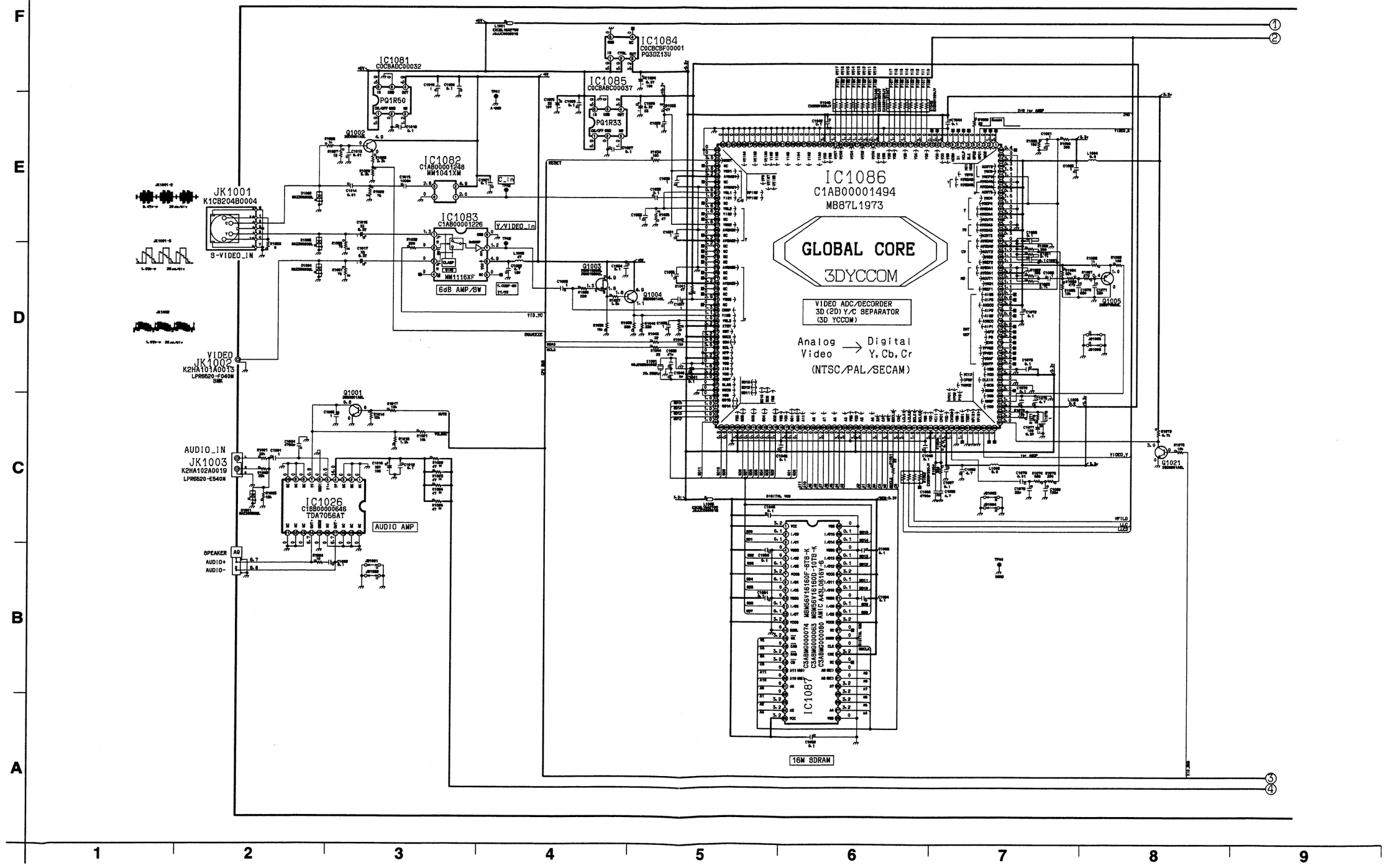
7. **HOT and COLD indications**
   The power circuit board contains a circuit area using a separate power supply to isolate the ground connection. The circuit is defined by HOT and COLD indications in the schematic diagram. Take the precautions below:
8. **This schematic diagram is the latest at the time of printing and the subject to change without notice.**

Precautions:

1. NEVER touch the HOT part or the HOT and COLD parts at the same time, or you may get an electric shock.
2. NEVER short-circuit the HOT and COLD circuits, or the fuse may blow and the parts may break.
3. NEVER connect an instrument such oscilloscope to the HOT and COLD circuit simultaneously, or the fuse may blow.Connect the ground of instruments to the ground of the circuit being measured.
4. MAKE SURE to unplug the power cord from the power outlet before removing the chassis.

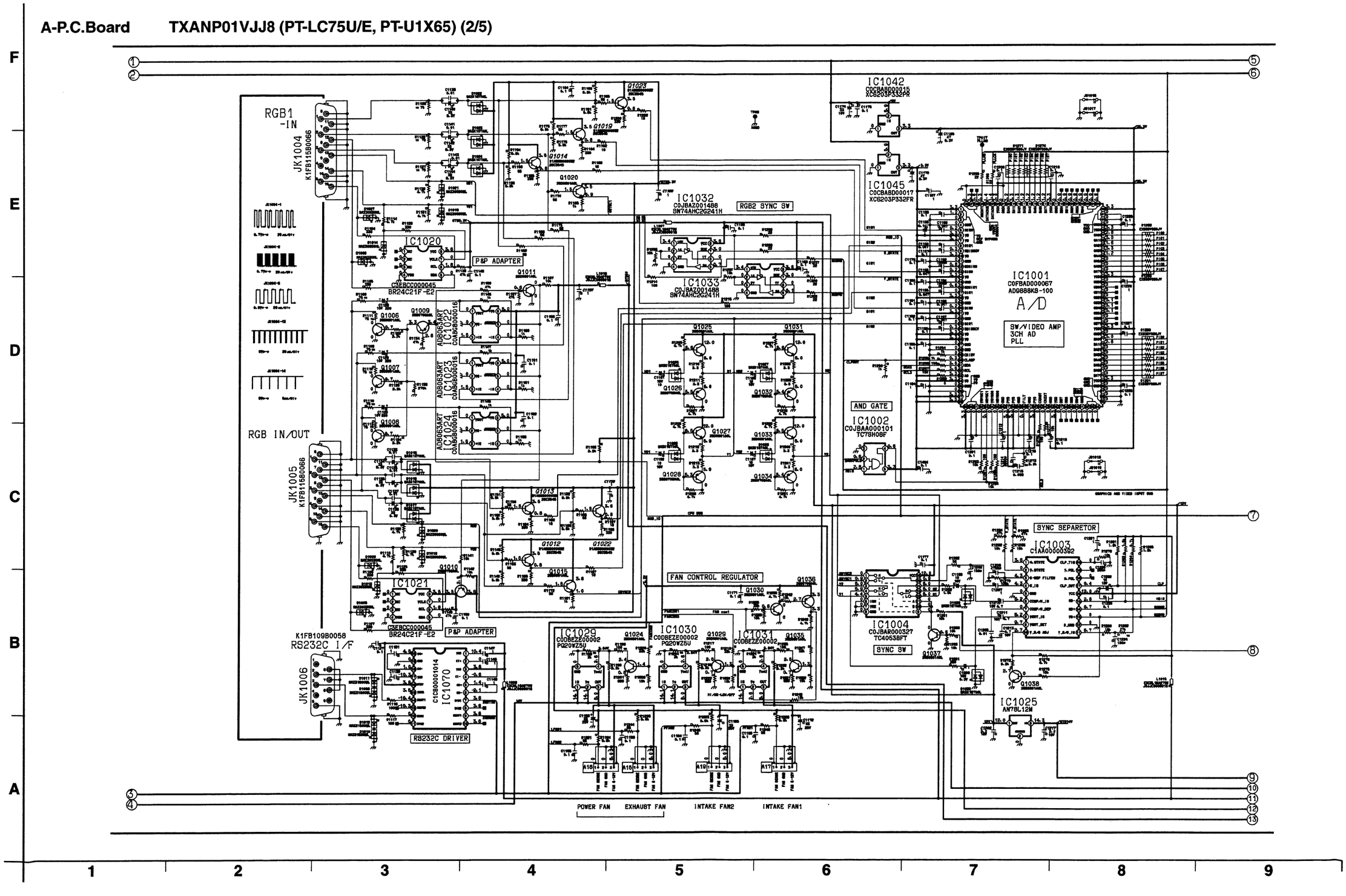
1.1. A-P.C.Board (PT-LC75U/E, PT-U1X65) (1/5)

A-P.C.Board TXANP01VJJ8 (PT-LC75U/E, PT-U1X65) (1/5)



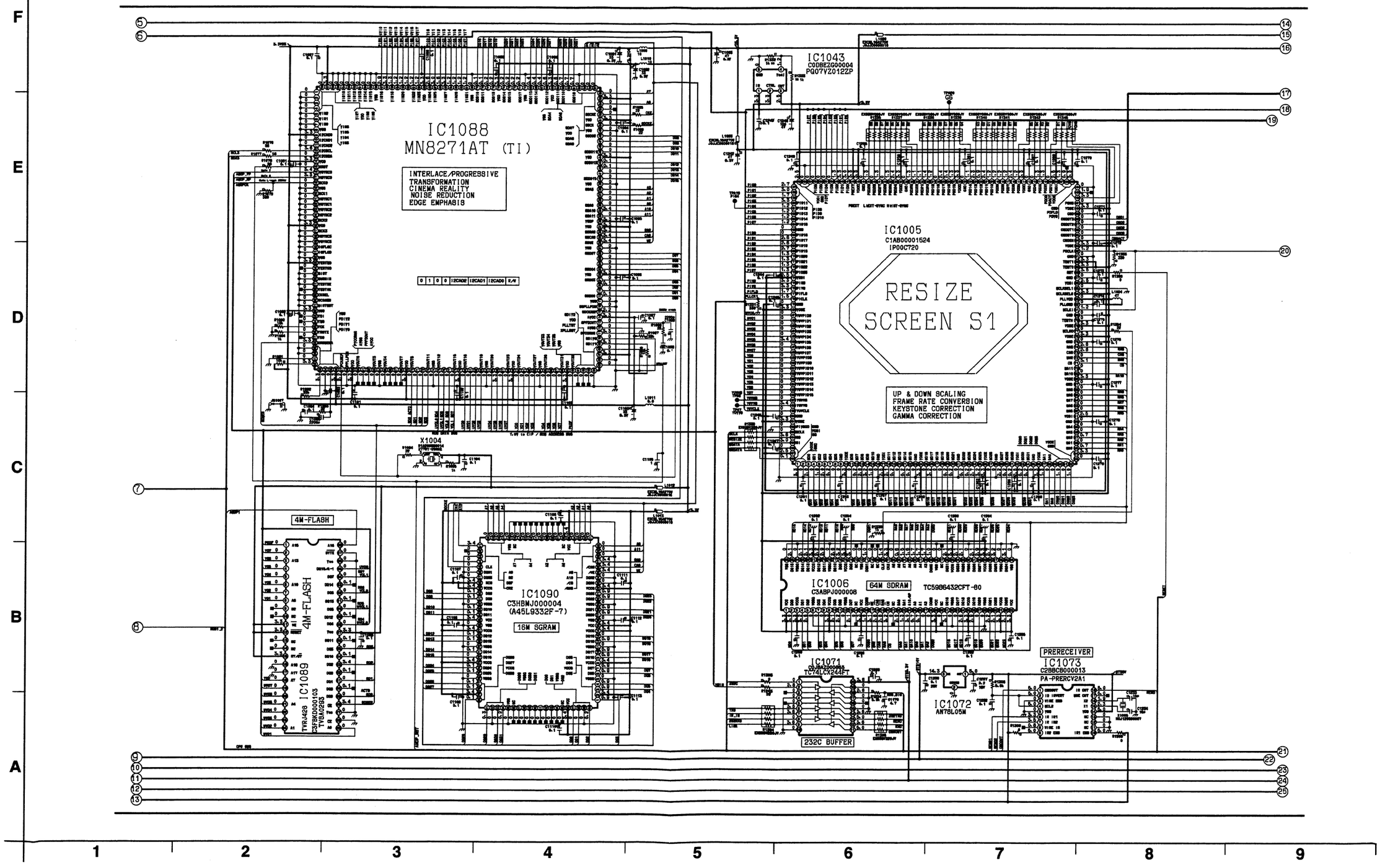
1.2. A-P.C.Board (PT-LC75U/E, PT-U1X65) (2/5)

A-P.C.Board TXANP01VJJ8 (PT-LC75U/E, PT-U1X65) (2/5)



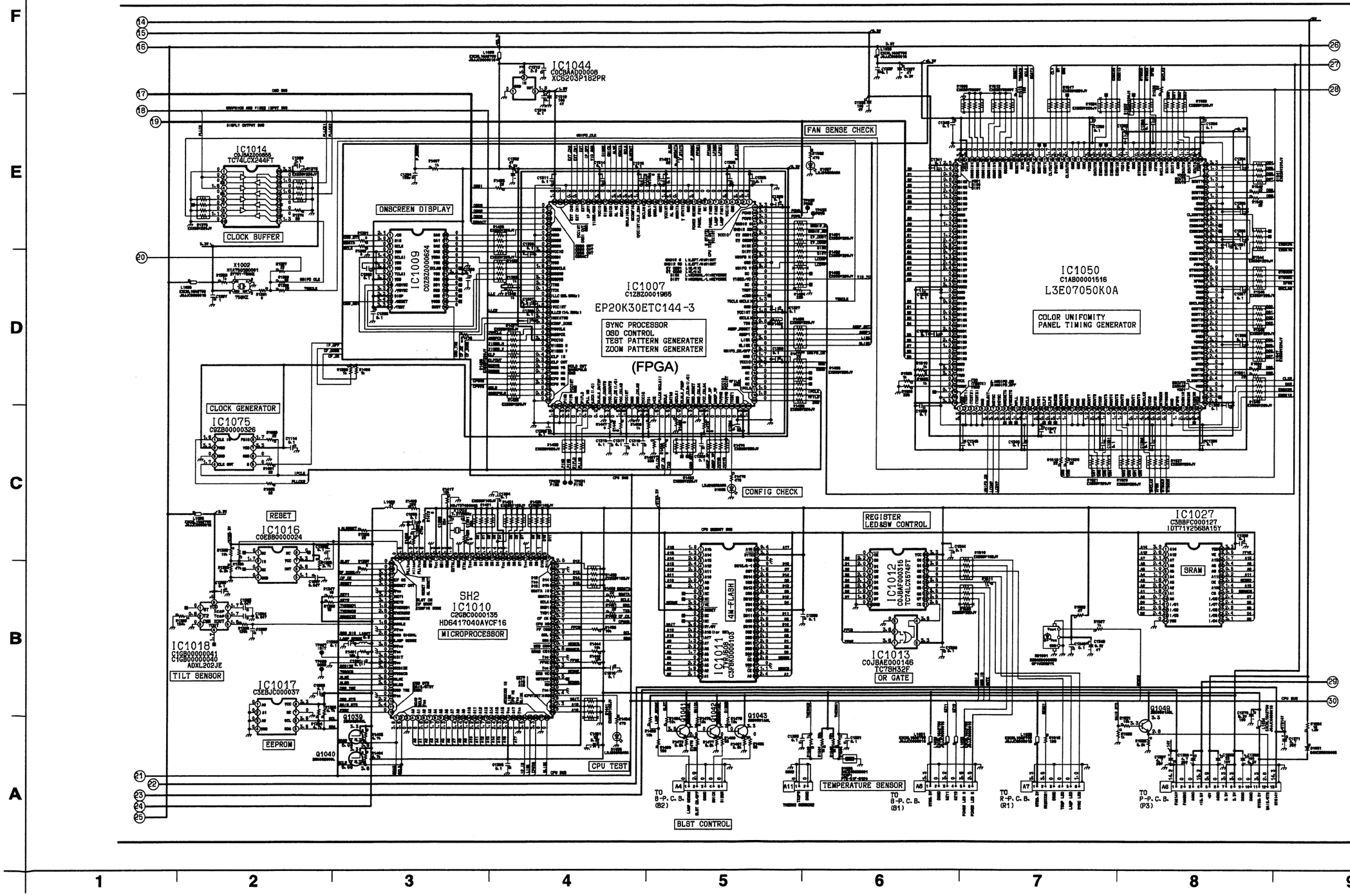
1.3. A-P.C.Board (PT-LC75U/E, PT-U1X65) (3/5)

A-P.C.Board TXANP01VJJ8 (PT-LC75U/E, PT-U1X65) (3/5)



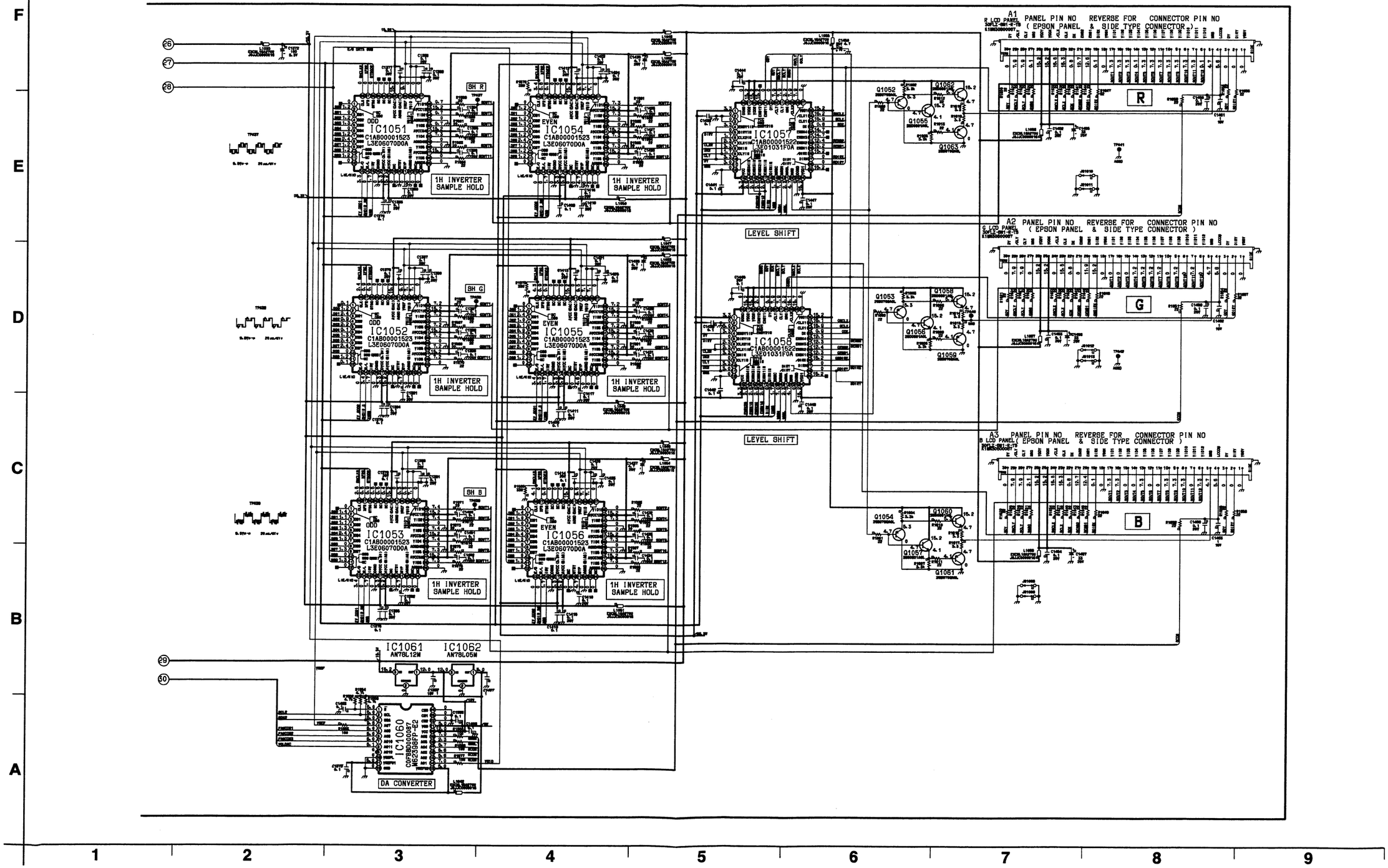
1.4. A-P.C.Board (PT-LC75U/E, PT-U1X65) (4/5)

A-P.C.Board TXANP01VJJ8 (PT-LC75U/E, PT-U1X65) (4/5)



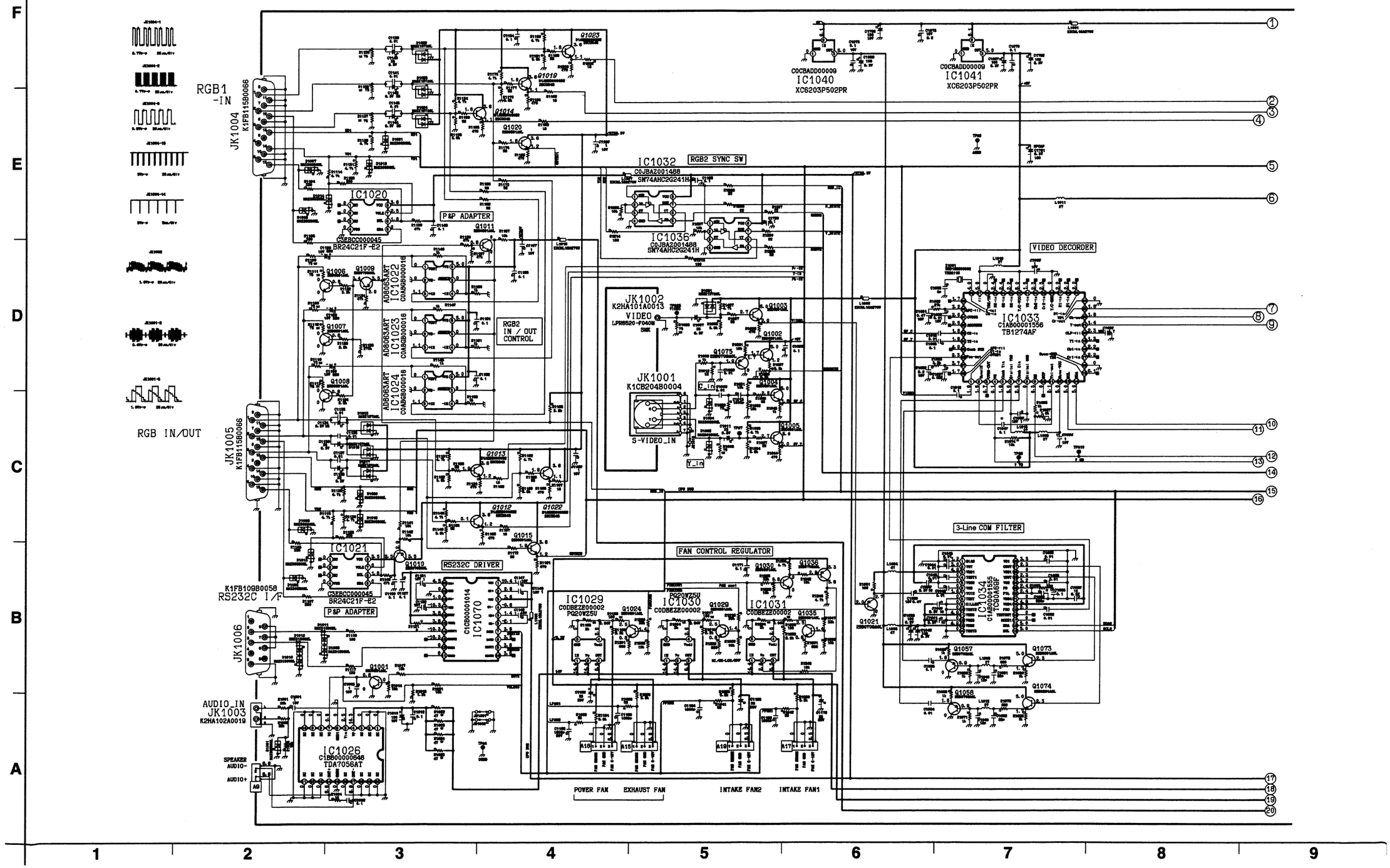
1.5. A-P.C.Board (PT-LC75U/E, PT-U1X65) (5/5)

A-P.C.Board TXANP01VJJ8 (PT-LC75U/E, PT-U1X65) (5/5)



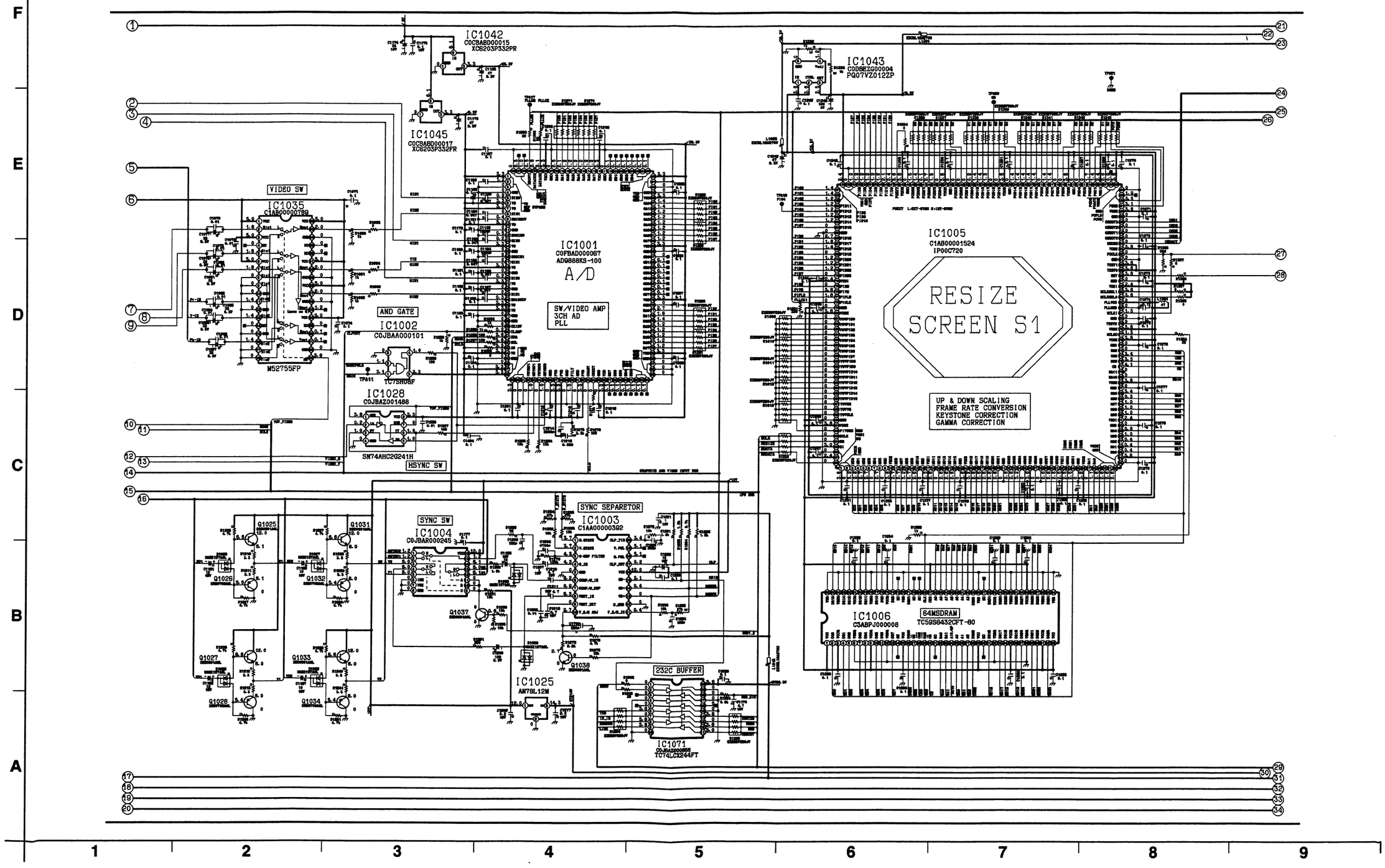
1.6. A-P.C.Board (PT-LC55U/E, PT-U1S65) (1/4)

A-P.C.Board TXANP01VJJ7 (PT-LC55U/E, PT-U1S65) (1/4)



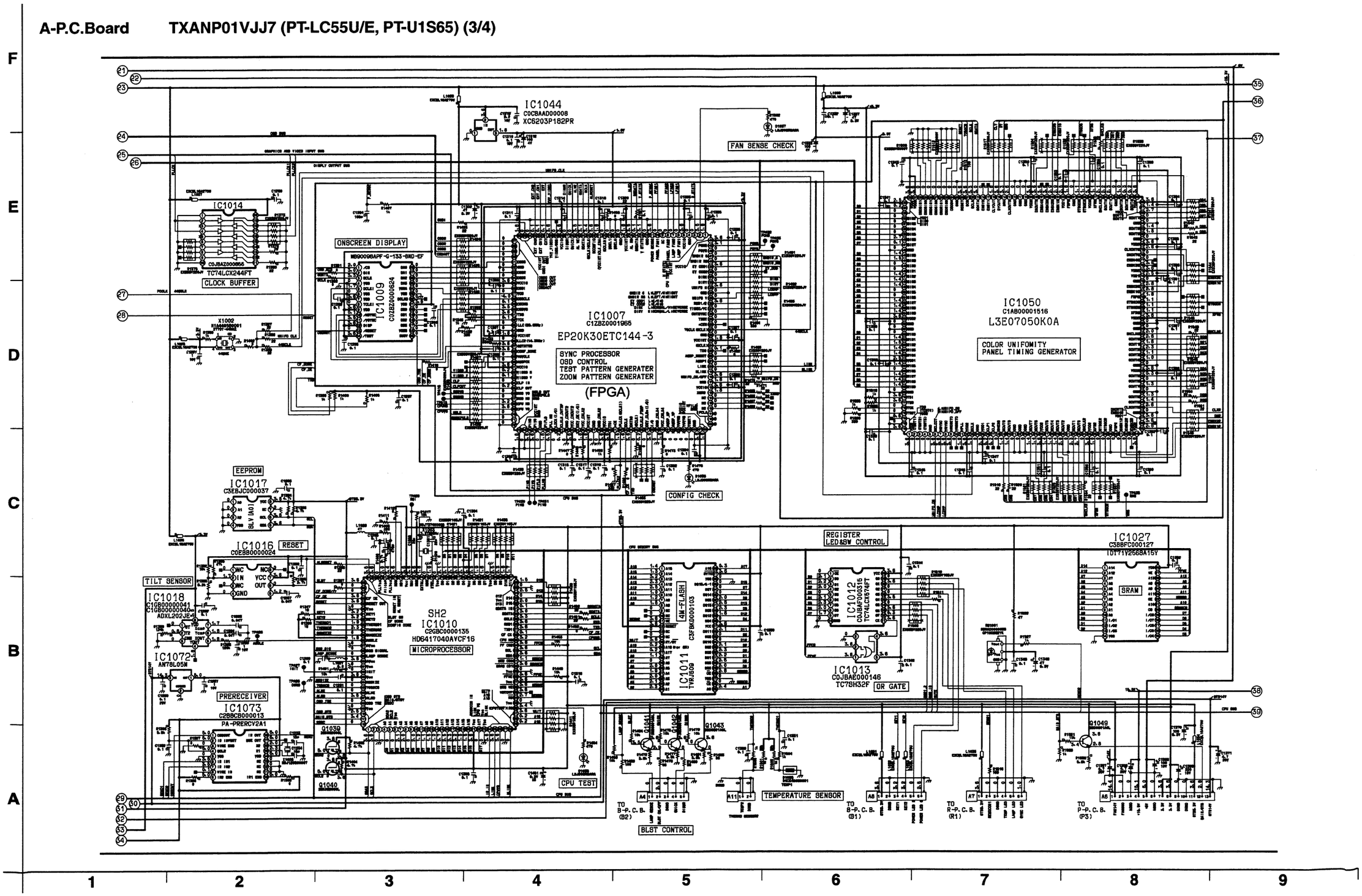
1.7. A-P.C.Board (PT-LC55U/E, PT-U1S65) (2/4)

A-P.C.Board TXANP01VJJ7 (PT-LC55U/E, PT-U1S65) (2/4)



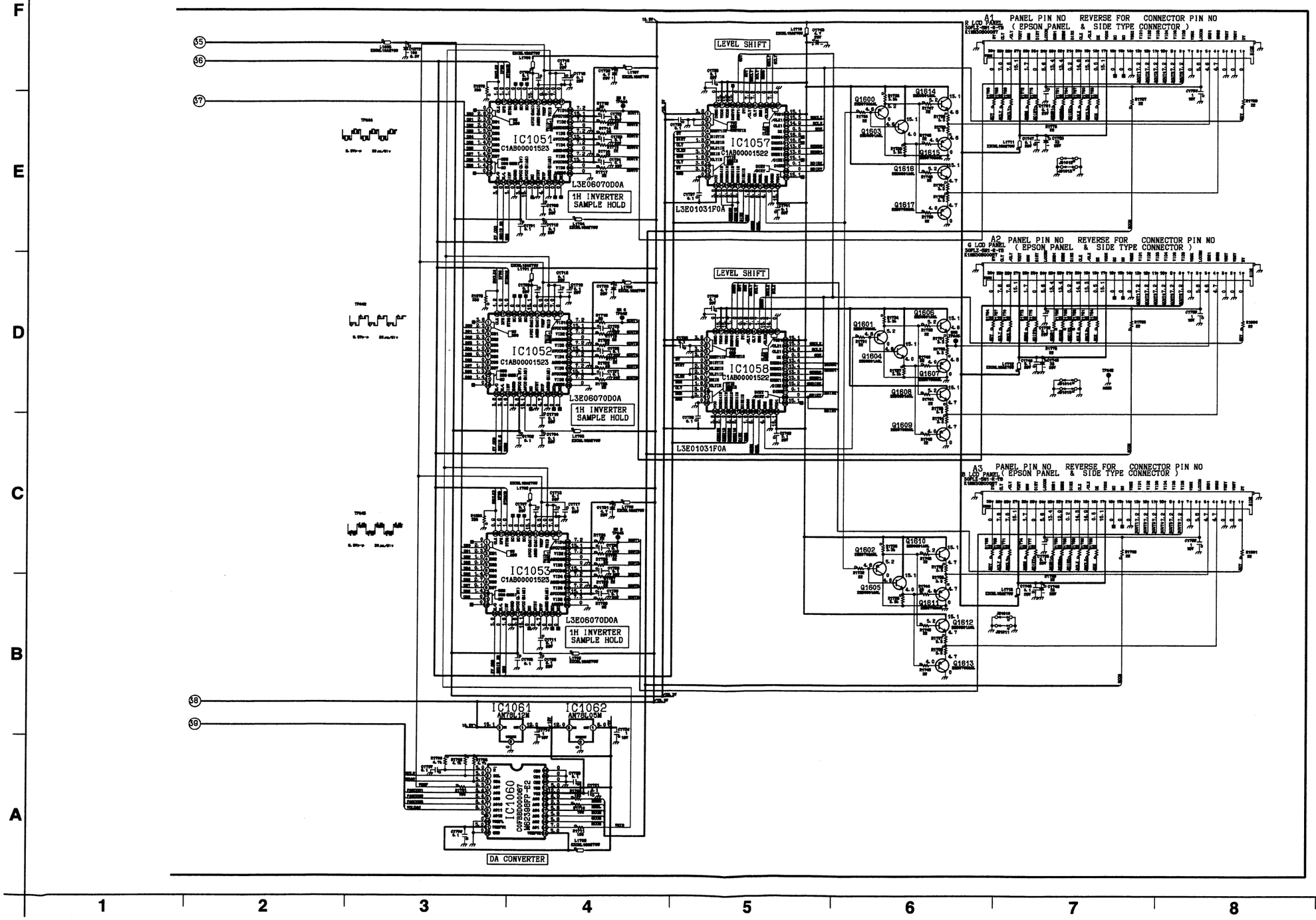
1.8. A-P.C.Board (PT-LC55U/E, PT-U1S65) (3/4)

A-P.C.Board TXANP01VJJ7 (PT-LC55U/E, PT-U1S65) (3/4)



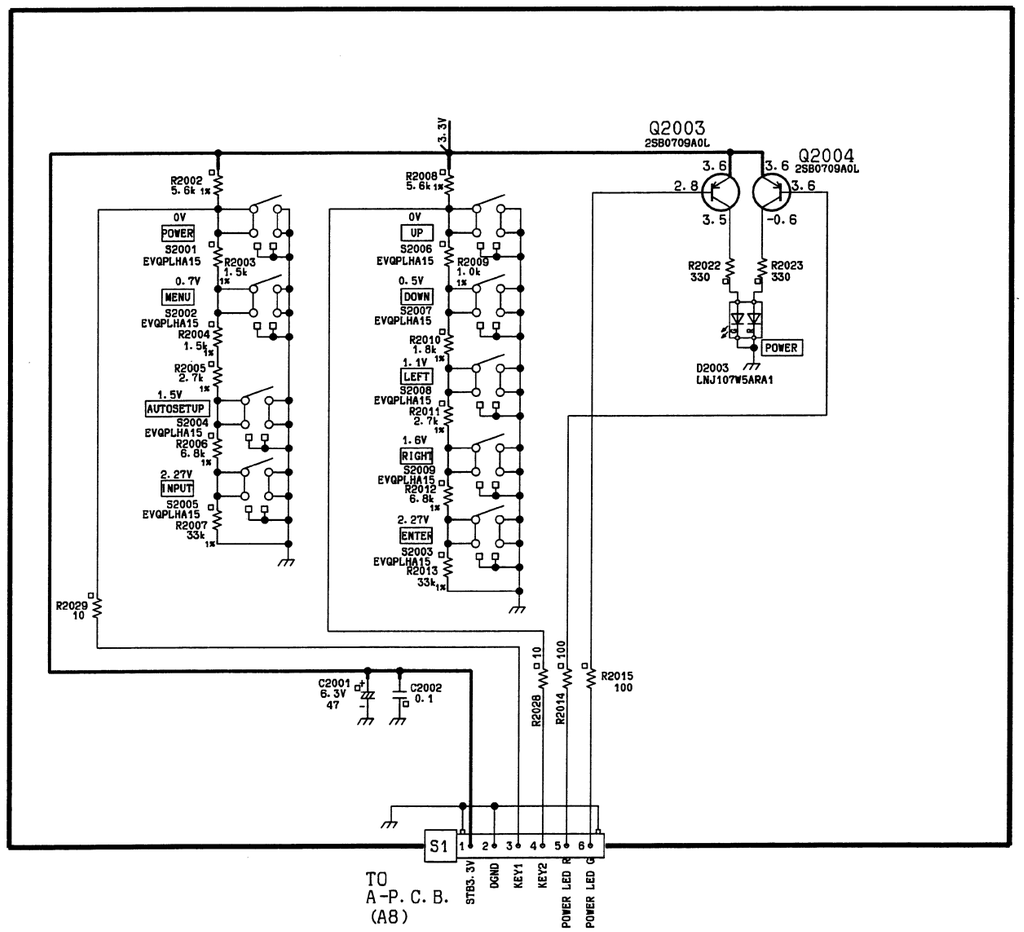
1.9. A-P.C.Board (PT-LC55U/E, PT-U1S65) (4/4)

A-P.C.Board TXANP01VJJ7 (PT-LC55U/E, PT-U1S65) (4/4)

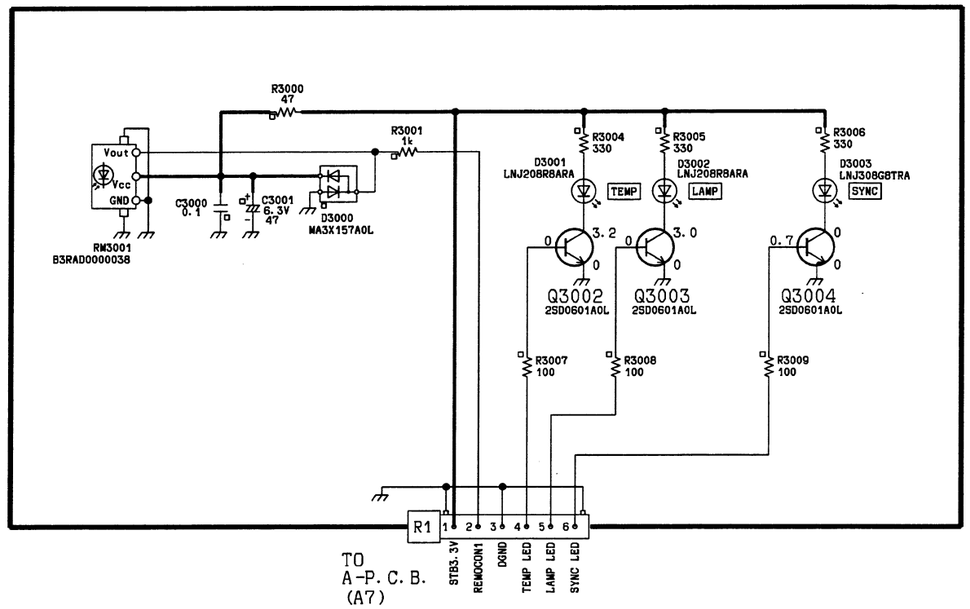


1.10. S-P.C.Board, R-P.C.Board

S-P.C.Board TNPA2391



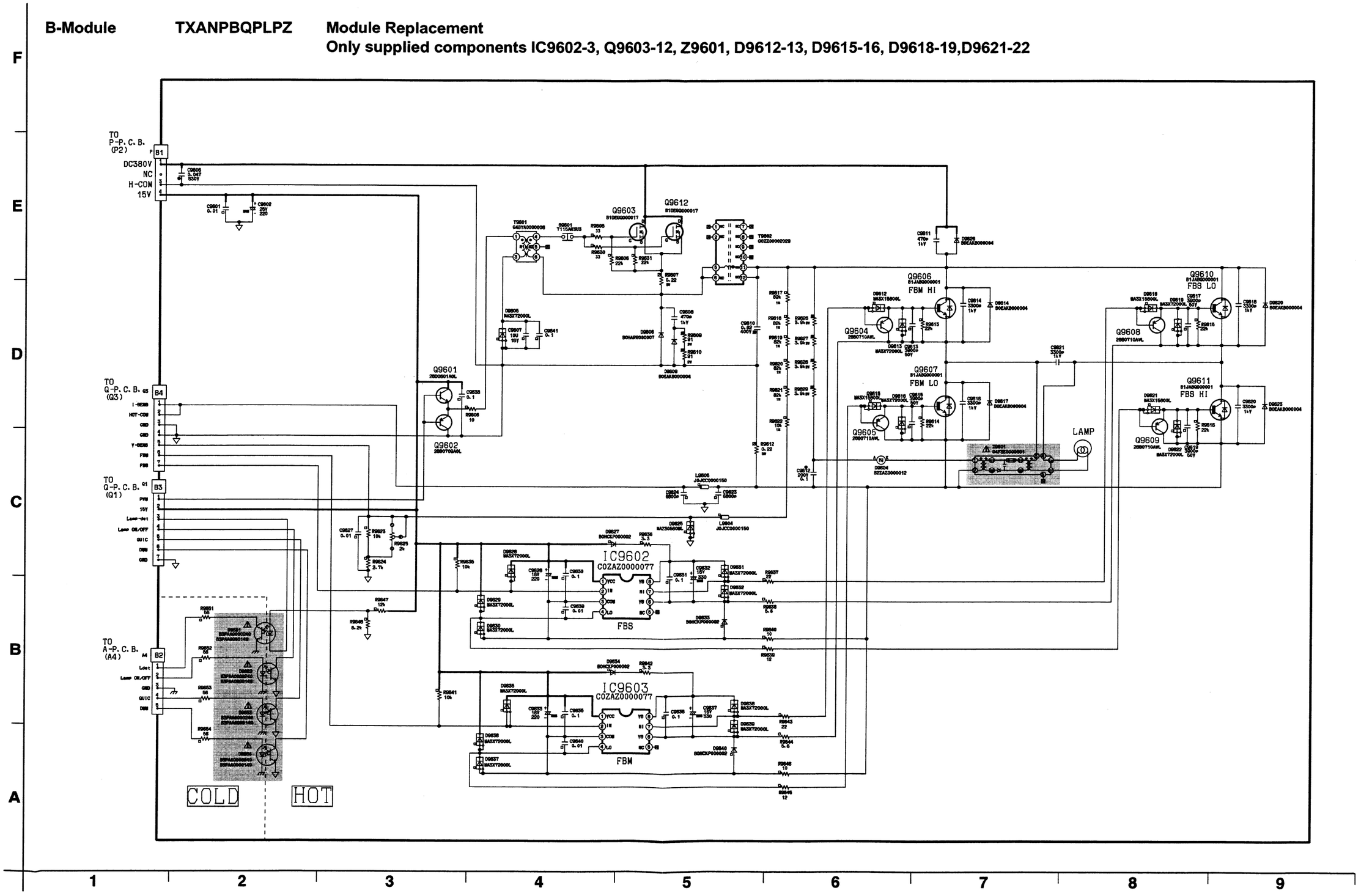
R-P.C.Board TNPA2400



1.11. B-Module

B-Module **TXANPBQPLPZ** **Module Replacement**

Only supplied components IC9602-3, Q9603-12, Z9601, D9612-13, D9615-16, D9618-19,D9621-22



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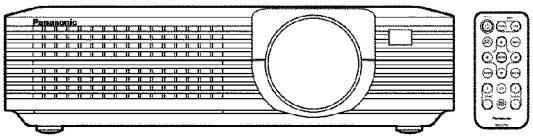
LCD Projector

PT-LC75U / PT-LC75E / PT-LC55U / PT-LC55E / PT-U1X65 / PT-U1S65



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Specifications

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100 V - 240 V AC, 50 Hz / 60 Hz
Power consumption:
220 W [During standby (when fan is stopped): Approx. 2.0 W]
Amps:
2.8 A - 1.0 A
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Panel size (diagonal): 0.7 type (17.78 mm)
Aspect ratio: 4:3 (16:9 compatible)
Micro lens array:
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PT-LC55U/E, U1S65: 480 000 (800 × 600) × 3 panels
Lens:
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PT-LC55U/E, U1S65: F 2.0 - 2.3, f 22.0 mm - 26.2 mm
Lamp:
UHM lamp (160 W)
Luminosity:
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Scanning frequency (for RGB signals):
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PT-LC75U/E, U1X65: 31 kHz - 91 kHz
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Vertical scanning frequency:
56 Hz - 87 Hz
Dot clock frequency:
Less than 100 MHz
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Optical axis shift:
6:1 (fixed)
Screen aspect ratio:
4:3
Installation:
Front / Rear / Ceiling / Desk (Menu selection method)
Speakers:
4.0 cm × 3.0 cm oval × 1
Max. useable volume output:
2 W (monaural)
Connectors:
RGB IN: Dual-line D-SUB HD 15-pin (female)
(One-line is available for input and output)
During $Y P_B P_R$ input/output:
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$P_B P_R$: 0.7 V [p-p], 75 Ω
During RGB input/output:
RGB: 0.7 V [p-p], 75 Ω
G.SYNC: 1.0 V [p-p], 75 Ω
HD / SYNC: TTL high impedance, automatic plus/minus polarity compatible
VD: TTL high impedance, automatic plus/minus polarity compatible
VIDEO IN: Single-line, RCA pin jack
1.0 V [p-p], 75 Ω
S VIDEO IN: Single-line, Mini Din 4-pin
Y 1.0 V [p-p], C 0.286 V [p-p], 75 Ω,
AUDIO IN: 0.5 V [rms] RCA pin jack × 2 (L-R)
Serial connector: D-sub 9p (female) RS-232C compatible
Cabinet:
Molded plastic (ABS / PC)
Dimensions:
Width: 310 mm
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Length: 243 mm (without lens cover)
Weight:
3.0 kg
Operating environment:
Temperature: 0°C - 40°C
(0°C - 35°C when operating in highlands)
Humidity: 20 % - 80 % (no condensation)
Certifications:
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PT-U1X65/U1S65: GB4943
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Operating range:
Approx. 7 m
(when operated directly in front of signal receptor)
Dimensions:
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Height: 6.5 mm
Length: 86 mm
Weight: 18 g (including battery)
Accessories:

Card remote control unit (TNQE239):	1
Lithium battery for remote control unit (CR2025):	1
Power cord:	
PT-LC75E/LC55E: K2CT3FZ00001 (U.K)	1
: K2CM3FZ00001 (continental)	1
PT-LC75U/LC55U: K2CG3FR00001	1
PT-U1X65/U1S65: K2CZ3FR00001	1
Video/Audio cable [K2KA2FA00001 (3.0 m)]:	1
Carrying bag (TPEP006):	1

Options:
Ceiling bracket: ET-PKC75
Wireless remote control unit: ET-RM100

- Specifications are subject to change without notice.
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It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Panasonic

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- S-VGA is a registered trademark of the Video Electronics Standards Association.
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- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION: Any unauthorized changes or modifications to this equipment will void the users authority to operate.

1. Safety Precautions

1.1. General Guidelines

- For continued safety, no modification of any circuit must be attempted.

- Unplug the power cord from the power outlet before disassembling this projector.

- It is advisable to use an isolation transformer in the AC power line before the service.

- Observe the original lead dress during the service. If a short circuit is found, replace all the parts overheated or damaged by the short circuit.

- After the service, all the protective devices such as insulation barriers, insulation papers, shields, and isolation R-C combinations must be properly installed.

- After the service, check the leakage current to prevent the customer from getting an electric shock.

1.2. Leakage Current Check

1. Prepare the measuring circuit as shown in Fig.1.
   Be sure to use a voltmeter having the performance described in Table 1.

Fig. 1

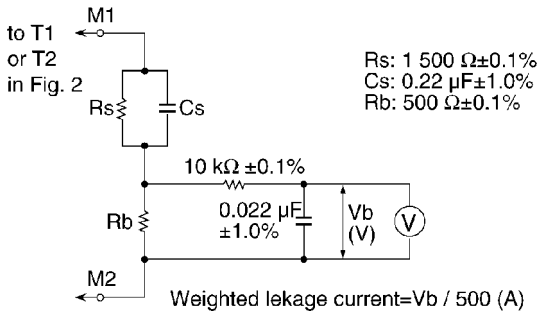
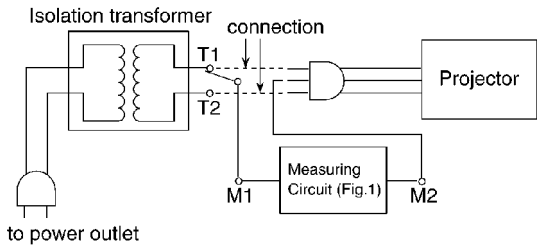


Table 1

	Performance
Voltmeter (rms reading)	Accuracy: ≤ 2% Input resistance: ≥ 1 MΩ Input capacitance: ≤ 200 pF Frequency range: 15 Hz to 1 MHz

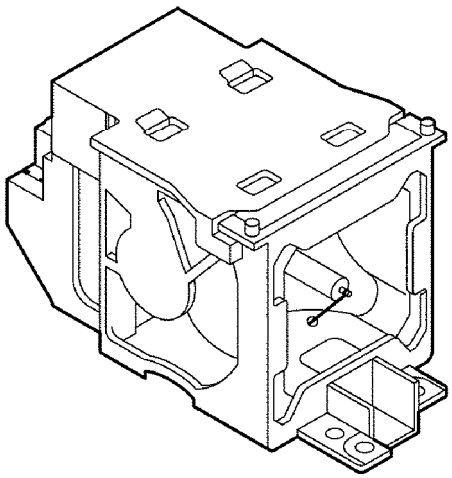
Fig. 2



2. Assemble the circuit as shown in Fig. 2. Plug the power cord in a power outlet.
3. Connect M1 to T1 according to Fig. 2 and measure the voltage.
4. Change the connection of M1 from T1 to T2 and measure the voltage again.
5. The voltmeter must read 0.375 V or lower in both of steps 3 and 4. This means that the current must be 0.75 mA or less.
6. If the reading is out of the above standard, the projector must be repaired and rechecked before returning to the customer because of a possibility of an electric shock.

1.3. UV Precaution and UHM Lamp Precautions

- Be sure to unplug the power cord from the power outlet when replacing the lamp.
- Because the lamp reaches a very high temperature during its operation, wait until it cools completely when replacing the Lamp Unit.
- The lamp emits small amounts of UV-radiation, avoid direct-eye contact with the light.
- Because the high pressure lamp involves a risk of explosion, never touch the lamp wire lead during the service. (See Fig. 3)



2. Ext Option

This projector has EXT OPTION in addition to standard on-screen menus.

- There are SELF CHECK and SERVICE MODE for service, etc.

2.1. Procedure to enter EXT OPTION

1. Press "MENU" button on the main unit or remote control unit to display "MENU" screen, then select "OPTION1" and press "ENTER" button.
2. Select "OSD" on "OPTION1" menu and press "ENTER" button 3 seconds or longer.
   MENU → OPTION1 → OSD

2.2. EXT OPTION Menu and Functions

EXT OPTION

FREEZE MSG	OFF / ON
ANGLE RESET	OFF / ON
FAN CONTROL	STD / HIGH / FULL
AUTOSETUP	STD / SPECIAL
SELF CHECK	
SERVICE MODE	

- FREEZE MSG
Switching ON/OFF "FREEZE" on-screen display
- ANGLE RESET
Switching ON/OFF "AUTO KEYSTN (Automatic Keystone)" reference level setting

Note:
- Normally, do not select. (Angle reset data will be rewritten.)

- FAN CONTROL
Setting the cooling fan motor rotation mode
- STD: Normal setting
- HIGH: Highlands mode
- FULL: High-speed

Notes:
- Must set HIGH when using the projector at highlands as 1 400 meters or higher above sea level.
- Not to use the projector at highlands exceeding 2 700 meters above sea level.

- AUTOSETUP
Setting AUTO SETUP mode
- STD: To set the normal mode (the dot clock is adjusted strictly)
- SPECIAL: To set the special mode (the dot clock is adjusted roughly)
*** Do not change the initial setting (STD).**
- SELF CHECK

To enter the self-check mode

- SERVICE MODE

To enter the service mode

2.3. Canceling EXT OPTION

Press "MENU" button on the main unit or remote control unit.

3. Self-Check Mode

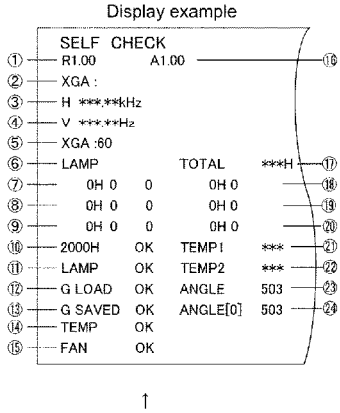
This mode is used to narrow down the location of the failure.

3.1. Procedure to enter the self-check mode

Select "SELF CHECK" on "EXT OPTION" menu and press "ENTER" button on the main unit or remote control unit.

3.2. Self Check Display and Contents

Display example


SELF CHECK
① R1.00 A1.00 ⑯
② XGA :
③ H ***.**kHz
④ V ***.**Hz
⑤ XGA :60
⑥ LAMP TOTAL ***H ⑰
⑦ 0H 0 0 0H 0 ⑱
⑧ 0H 0 0 0H 0 ⑲
⑨ 0H 0 0 0H 0 ⑳
⑩ 2000H OK TEMP1 *** ㉑
⑪ LAMP OK TEMP2 *** ㉒
⑫ G LOAD OK ANGLE 503 ㉓
⑬ G SAVED OK ANGLE[0] 503 ㉔
⑭ TEMP OK
⑮ FAN OK

↑

"OK": Normal, "--": Failure, Numeral: Number of times for turning on the lamp

* Above display is an example and the display contents depend on the input signal mode.

	Display Contents	Remarks
①	Microcomputer Version Display	Software Version
②	Resolution Name	Different display according to the input signal
③	Horizontal Signal Frequency	RGB or YP_BP_R signal reception only
④	Vertical Signal Frequency	
⑤	Signal Name	
⑥	Lamp	7 to 11: Lamp Data
⑦	Lamp Cumulative Usage Time	Current Usage Time
⑧		Second Usage Time
⑨		First Usage Time
⑩	Lamp Judgment for Cumulative Usage more than 2 000 h	Judgment for Replacement Time of Lamp
⑪	Lamp Abnormality	Check Cause of Lamp Malfunction
⑫	Gamma Correction Data Check	Judgment for Replacing A-P.C.Board
⑬		
⑭	Temperature Abnormality Check	Cause of Lamp Malfunction
⑮	Fan Stop Check	
⑯	FPGA Version Display *1	Software Version
⑰	Projector Cumulative Usage Time	Total Usage Time
⑱	Lamp Cumulative Usage Time (Normal Mode Conversion Time)	Current Usage Time
⑲		Second Usage Time
⑳		First Usage Time
㉑	Temp Sensor 1 Measurement Value *2	Around LCD Panel
㉒	Temp Sensor 2 Measurement Value *2	Around Intake Slot (Detects air filter's choke, etc.)
㉓	Tilt Sensor Measurement Value *3	
㉔	Tilt Sensor Reference Value	At horizontal level

*1 FPGA (Field Programmable Gate Array)
LSI that is rewritable quickly while inspecting the program by system designer. (This will be able to reduce the development time.)

*2 When detected abnormal temperature (high temperature around the LCD panel, large difference between temperature at the intake slot and temperature around the LCD panel), TEMP LED is turned on and the power is shutdown if arriving at the critical temperature.

*3 When "AUTO KEYSTN (Automatic Keystone)" is set to ON, the keystone distortion is corrected automatically with this value during automatic setup.

3.3. Canceling the self-check mode

Press "MENU" button on the main unit or remote control unit.

4. Service Mode

This mode is used to display five kinds of test patterns [Horizontal lines, Vertical lines, Dots, Crosshatch and White (No pattern)] in the four colors (White, Red, Green and Blue).

Note:

- On the service mode, displays above patterns by each color without test equipment such as PC or SG. Use the service mode for simplified adjustments by your eyes and so on.

4.1. Procedure to enter the service mode

Select "SERVICE MODE" on "EXT OPTION" menu and press "ENTER" button on the main unit or remote control unit.

Note:

- In the service mode, pressing the up-arrow "▲" or down-arrow "▼" button allows the test pattern selection and theleft-arrow "◀" or right-arrow "▶" button the color selection (White / Red / Green / Blue).

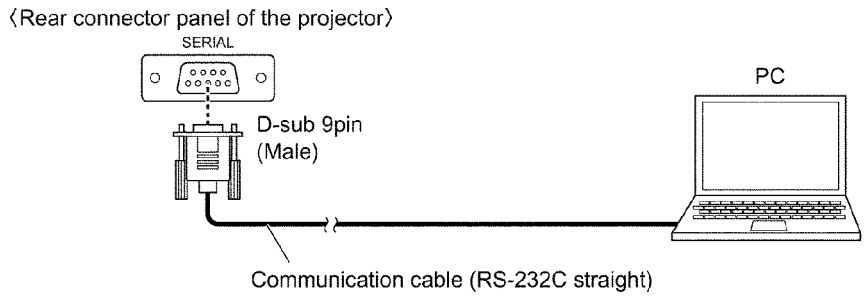
4.2. Canceling the service mode

Press "MENU" button on the main unit or remote control unit.

5. Using the SERIAL Connector

The serial connector which is on the side connector panel of the projector conforms to RS-232C standard. This projector can be controlled by a PC which is connected as shown in "5.1. Connection". For controlling this projector by aPC, requires communication software on the market, and inputs control commands according to communication settings and basic format below.

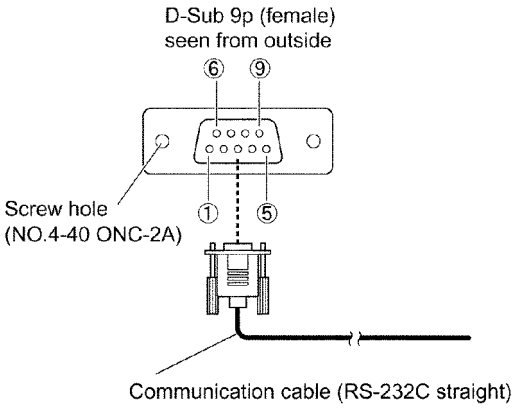
5.1. Connection



Note:

Use a proper communication cable which is suitable for the PC to connect SERIAL connector and the PC.

5.2. Pin Layout and Signal Names for SERIAL Connector



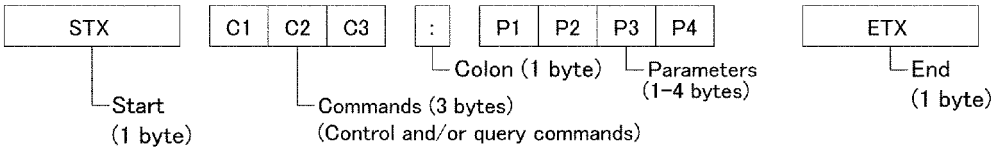
Pin No	Signal Name	Contents
1	---	NC
2	TXD	Transmit data
3	RXD	Receive data
4	---	NC
5	GND	Ground
6	DSR	Connected internally
7	CTS	
8	RTS	
9	---	NC

5.3. Communication Settings

Signal Level	Contents		Description
Sync. method	Conforms to RS-232C standard	Asynchronous	Synchronizes every 1 charact bits)
Baud rate		9 600 bps	Data transfer speed
Parity		None	Error detection method
Character length		8 bits	Number of bit composing 1 ch
Stop bit		1 bit	Uses stop bit when asynchro method
X parameter		Not used	
S parameter		Not used	

5.4. Basic Format

The data sent from the PC to the projector is transmitted in the format shown below.



Notes:

- If sending multiple commands, check that a call back has been received from the projector for 1 command before sending the next command.

- When a command which does not require parameters is sent, the colon (:) is not required.

5.5. Control/ Query Commands

Control Commands

Command Name (Parameter format is shown in < >)	Function / Contents	Call back from Projector (Parameter format is shown in < >)	Minimum Value of Parameter	Maximum Value of Parameter
PON	POWER ON	PON	——	——
POF	POWER OFF	POF	——	——
AVL :<pl>	VOLUME	AVL :<pl>	0	63
IIS :<input signal>	INPUT SELECT	IIS :<input signal>	——	——
OST	STANDARD	OST	——	——
OFZ :<off_on>	FREEZE	OFZ :<off_on>	0	1
OEN :	ENTER	OEN	——	——
OID :<off_on>	ENTER	OID :<off_on>	0	1
OBC :<back color>	BACK COLOR	OBC :<back color>	0	1
OIL :<installation>	INSTALLATION	OIL :<installation>	0	3
OLG :<language>	LANGUAGE	OLG :<language>	——	——
VSG :<signal mode>	SIGNAL MODE SET	VSG :<signal mode>	——	——
VCO :<pl>	COLOR	VCO :<pl>	0	63
VTN :<pl>	TINT	VTN :<pl>	0	63
VBR :<pl>	BRIGHT	VBR :<pl>	0	63
VCN :<pl>	CONTRAST	VCN :<pl>	0	63
VSR :<pl>	SHARPNESS	VSR :<pl>	0	3
VWR :<pl>	WHITE BALANCE RED	VWR :<pl>	0	63
VWG :<pl>	WHITE BALANCE GREEN	VWG :<pl>	0	63
VWB :<pl>	WHITE BALANCE BLUE	VWB :<pl>	0	63
VHP :<pl>	H-POSITION	VHP :<pl>	0	255 (127)*1
VVP :<pl>	V-POSITION	VVP :<pl>	0	127 (63)*1 (Video 31)
VCP :<pl>	COLOR PHASE	VCP :<pl>	0	63
VDC :<pl>	DOT CLOCK	VDC :<pl>	0	127 (63) *1
VPM :<picture mode>	PICTURE MODE	VPM :<picture mode>	——	——
<NAT>	Natural	<NAT>	——	——
<STD>	Standard	<STD>	——	——
<DYN>	Dynamic	<DYN>	——	——
AUU	VOLUME UP	AUU		
AUD	VOLUME DOWN	AUD		
OMN	MENU	OMN		
OCU	CURSOR UP	OCU		
OCD	CURSOR DOWN	OCD		
OCL	CURSOR LEFT	OCL		
OCR	CURSOR RIGHT	OCR		
OAS	AUTO SETUP	OAS		
OSH	SHUTTER	OSH		
OIX	INDEX WINDOW	OIX		
DZU	D.ZOOM UP	DZU		
DZD	D.ZOOM DOWN	DZD		
KST	KEYSTONE (Adjust)	KST		
OKS :<pl>	KEYSTONE (Setting)	OKS :<pl>	-32	31
VS1 :<s1 signal>	S1 SIGNAL	VS1 :<s1 signal>	0	3
VRZ :<off_on>	RESIZING	VRZ :<off_on>	0	1
OAK :<off_on>	AUTO KEYSTONE	OAK :<off_on>	0	1

*1 The value in parentheses shows that the input signal is S-VGA or lower resolution.

Command Name (Parameter format is shown in <>)	Function / Contents	Call back from Projector (Parameter format is shown in <>)	Minimum Value of Parameter	Maximum Value of Parameter
OAY :<off_on>	AUTO YP_BP_R	OAY :<off_on>	0	1
OAR :<off_on>	AUTO RGB INPUT	OAR :<off_on>	0	1
ORF :<RGB format>	AUTO RGB FORMAT	ORF :<RGB format>	0	1
OLP :<lamp power>	LAMP POWER	OLP :<lamp power>	0	1
OFC :<function>	FUNCTION 1	OFC :<function>	0	1
OGS :<gamma set>	GAMMA SET	OGS :<gamma set>	0	1
CPK :<console>	CONSOLE (Available / Unavailable)	CPK :<console>	0	1
ORI :<RGB2 select>	RGB2 SELECT	ORI :<RGB2 select>	——	——
OTE :<color temp.>	COLOR TEMPERATURE	OTE :<color temp.>	0	2

Query Commands

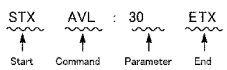
Query Command	Contents	Call back from Projector (Parameter format is shown in 〈 〉)
QPW	POWER CONDITION	〈power condition〉
QIN	INPUT SIGNAL	〈input signal〉
QAV	VOLUME LEVEL	〈pl〉
QVC	COLOR LEVEL	〈pl〉
QVT	TINT LEVEL	〈pl〉
QVB	BRIGHT LEVEL	〈pl〉
QVR	CONTRAST LEVEL	〈pl〉
QVS	SHARPNESS LEVEL	〈pl〉
QWR	WHITE BALANCE LEVEL (RED)	〈pl〉
QWG	WHITE BALANCE LEVEL (GREEN)	〈pl〉
QWB	WHITE BALANCE LEVEL (BLUE)	〈pl〉
QSG	SIGNAL MODE	〈signal mode〉
QHP	H-POSITION LEVEL	〈pl〉
QVP	V-POSITION LEVEL	〈pl〉
QCP	COLOR PHASE LEVEL	〈pl〉
QDC	DOT CLOCK LEVEL	〈pl〉
QDI	INPUT DISPLY	〈off_on〉
QBC	BACK COLOR	〈back color〉
QSP	INSTALLATION	〈installation〉
QLG	LANGUAGE	〈language〉
QPM	PICTURE MODE	〈NAT〉=Natural 〈STD〉=Standard 〈DYN〉=Dynamic
QFZ	FREEZE	〈off_on〉
QLP	LAMP POWER	〈lamp power〉
QSL	LAMP ON TIME	〈acctch〉
QSH	SHUTTER	〈off on〉
QIX	INDEX WINDOW	〈index window〉
QAS	AUTO SETUP	〈autosetup〉
QKS	KEYSTONE	〈pl〉
QSI	SI SIGNAL	〈si signal〉
QRZ	RESIZING	〈off_on〉
QAK	AUTO KEYSTONE	〈off_on〉
QAY	AUTO YPBPR	〈off_on〉
QAR	AUTO RGB INPUT	〈off_on〉
QRF	RGB FORMAT	〈RGB format〉
QFC	FUNCTION 1	〈function〉
QFH	FH DATA	〈frequency〉
QFV	FV DATA	〈frequency〉
QRI	RGB2 SELECT	〈RGB2 select〉
QTE	COLOR TEMPERATURE	〈color temp.〉

Parameters

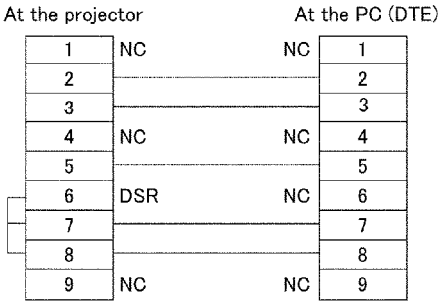
Parameter Format	Parameter Size (Byte)	Parameter Definition
〈pl〉	3 (provided that approves of 1 byte or 2 bytes when control)	Decimal notation without plus/minus sign (0 to 999). Decimal notation with plus/minus sign (−99 to +99) (Returns 3 bytes call back from the projector. Decimal notation without plus/minus sign (000, 001, 002, ... 999). Decimal notation with plus/minus sign (−99, −98, ... −01, +00, +01, ..., +99).)
〈off_on〉	1	0=OFF, 1=ON
〈input signal〉	3	VID=VIDEO, SVD=S-VIDEO, RG1=RGB1, RG2=RGB2
〈back color〉	1	0=BLUE, 1=BLACK
〈installation〉	1	0=FRONT/DESK, 1=REAR/DESK, 2=FRONT/CEILING, 3=REAR/CEILING
〈language〉	3	ENG=English, DEU=German, FRA=French, ESP=Spanish, ITA=Italian, JPN=Japanese, CHI=Chinese
〈signal mode〉	3	[VIDEO] AT1=AUTO1, AT2=AUTO2, NTS=NTSC, N44=NTSC443, PAL=PAL, PAN=N-PAL, PAM=M-PAL, SEC=SECAM [RGB] AUT=AUTO
〈power condition〉	3	000=Power OFF, 001=Power ON
〈acctch〉	4	Decimal notation without plus/minus sign: 0000 hour to 9999 hours
〈si signal〉	1	[VIDEO/RGB] 0=4:3, 1=16:9, 2=S4:3 [S-VIDEO] 0=AUTO, 1=4:3, 2=16:9, 3=S4:3
〈RGB format〉	1	0=RGB, 1=YPBPR
〈lamp power〉	1	0=STD, 1=HIGH
〈function〉	1	1=INDEX WINDOW, 0=KEYSTONE
〈gamma set〉	1	0=Default data read, 1=EEPROM data read
〈console〉	1	0=Unavailable, 1=Available
〈index window〉	1	0=Index window OFF, 1=Index window ON (50%), 2=Index window ON (75%), 3=Index window ON (100%)
〈auto setup〉	1	1=Autosetup in process, 0=Autosetup in stop
〈RGB2 select〉	3	2IN=Input, 2OU=output
〈color temp.〉	1	0=LOW, 1=STD, 2=HIGH
〈frequency〉	6	000.00

* If an incorrect command is sent from the PC, the "ER401" command will be sent from the projector to the PC.

[Example]
When controls the audio volume to +30 by a PC
(Sends commands as the following:)



5.6. Communication Cable Specifications



5.7. Signal Selector Connecting Cable Specifications

When connecting to a signal selector (ex. TW-SWS62J), use a cable with specifications below.
Connecting method: Connects a video signal cable from the signal selector to "VIDEO IN", and an RGB signal cable to "RGB1 IN".

At the signal selector D-sub 9p (male)		At the projector (DCE) D-sub 9p (male)	
Signal Name	Pin No.	Pin No.	Signal Name
NC	1	1	NC
RD Receive data	2	2	SD Transmit data
SD Transmit data	3	3	RD Receive data
NC	4	4	NC
GND Ground	5	5	GND Ground
NC	6	6	DSR
RS Transmit request	7	7	CS Transmit permission
CS Transmit permission	8	8	RS Transmit request
NC	9	9	NC

Note:
Set VP control terminal switch of the signal selector to VP TYPE "B".

6. Disassembly Instructions

Warning:

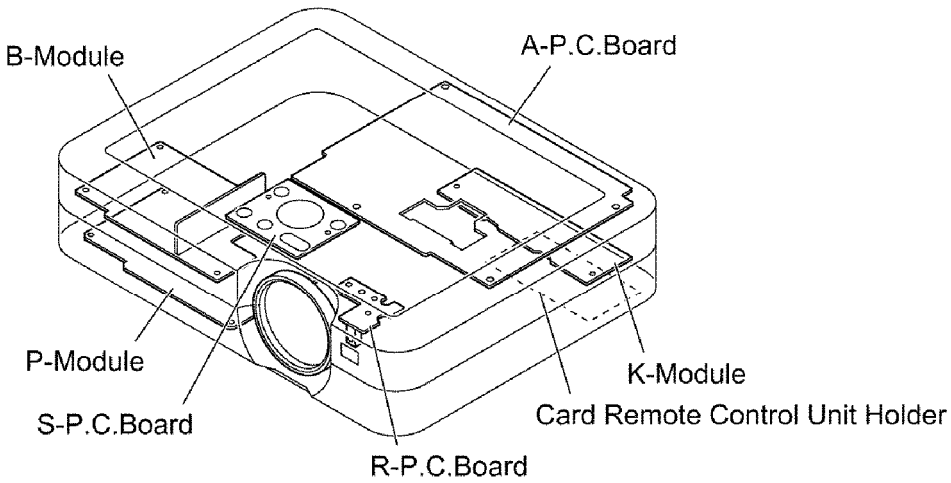
- Be sure to unplug the power cord from the power outlet before disassembling this projector.

Caution:

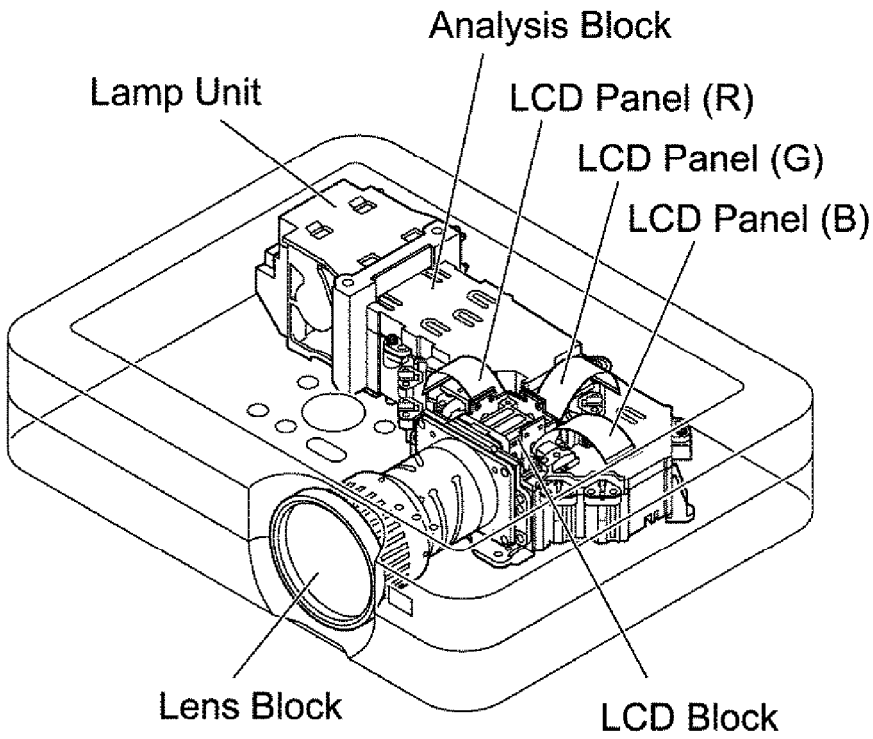
- While turning over a printed circuit board, be sure to put a insulating material under it to prevent a short circuit.
- Printed circuit boards and wires must not be pulled forcibly, but be handled carefully.
- Connectors also must be handled carefully.
- After repairing this projector, be sure to put back the wires and connectors to the original condition.

6.1. Printed Circuit Board and Main Parts Location

Electrical Parts



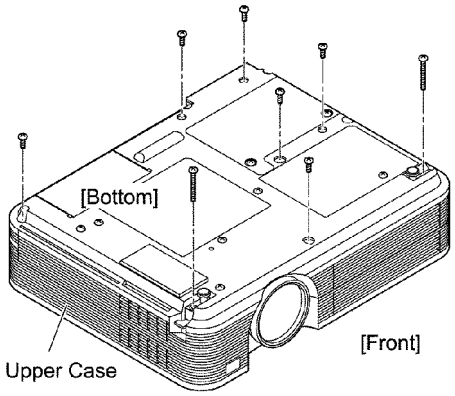
Optical Parts



6.2. Removal of Upper Case

1. Turn the projector upside down.

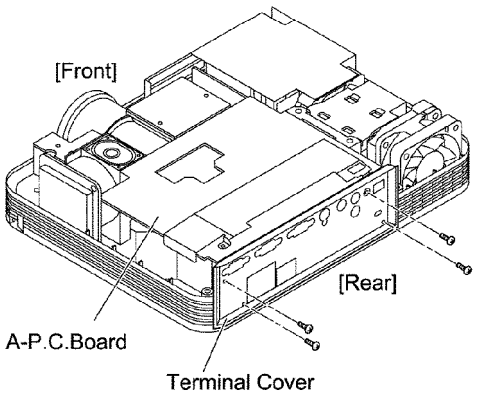
2. Unscrew the 8 screws fixing the upper case.



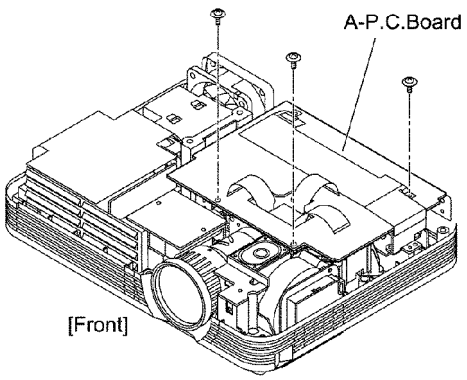
3. Return the projector to the normal position.
4. Remove the upper case.

6.3. Removal of A-P.C.Board

1. Remove the upper case according to the section 6.2. "Removal of Upper Case".
2. Disconnect the connectors from/to the A-P.C.Board.
3. Unscrew the 4 screws and remove the terminal cover.

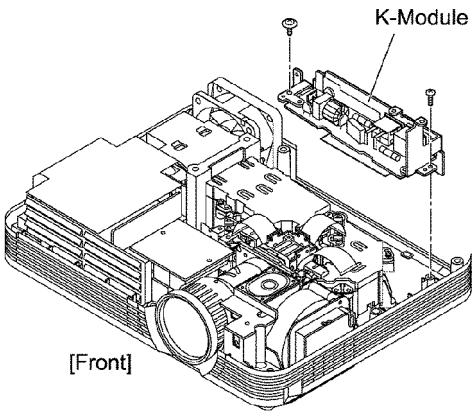


4. Unscrew the 3 screws and remove the A-P.C.Board.



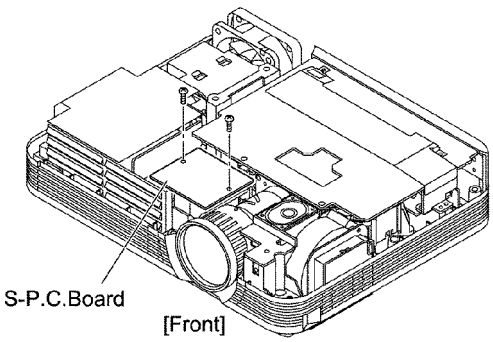
6.4. Removal of K-Module

1. Remove the upper case according to the section 6.2. "Removal of Upper Case".
2. Remove the A-P.C.Board according to the section 6.3. "Removal of A-P.C.Board".
3. Disconnect the 1 connector.
4. Unscrew the 2 screws and remove the K-Module.



6.5. Removal of S-P.C.Board

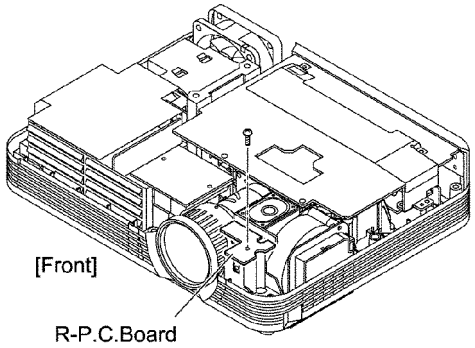
1. Remove the upper case according to the section 6.2. "Removal of Upper Case".
2. Unscrew the 2 screws.
3. Disconnect the 1 connector and remove the S-P.C.Board..



6.6. Removal of R-P.C.Board

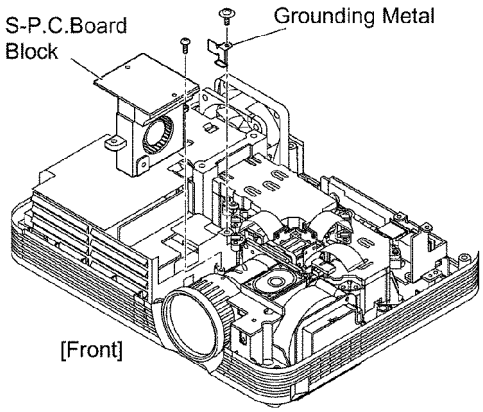
1. Remove the upper case according to the section 6.2. "Removal of Upper Case"..

2. Disconnect the 1 connector.
3. Unscrew the 1 screw and remove the R-P.C.Board.

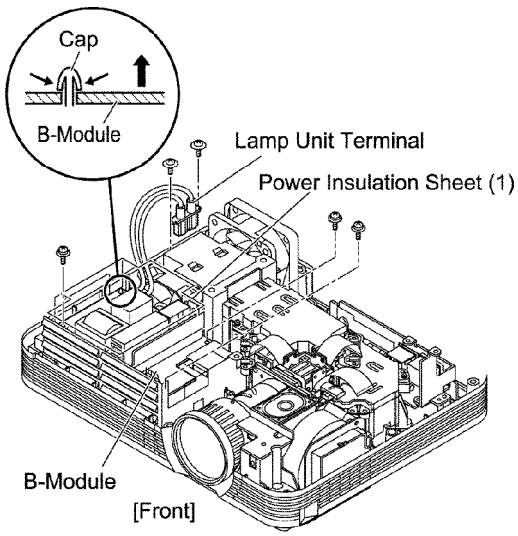


6.7. Removal of B-Module

1. Remove the upper case according to the section6.2. "Removal of Upper Case".
2. Remove the A-P.C.Board according to the section6.3. "Removal of A-P.C.Board".
3. Unscrew the 1 screw and remove the grounding metal.
4. Unscrew the 1 screw and remove the S-P.C.Board block.

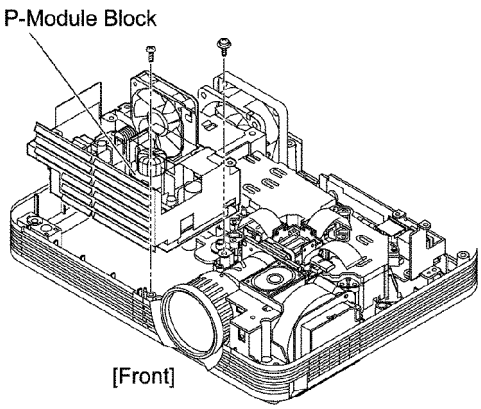


5. Unscrew the 2 screws and remove the lamp unit terminal.
6. Unscrew the 3 screws and remove the power insulation sheet (1).
7. While pressing to close the cap of the resinous stand, remove the B-Module.

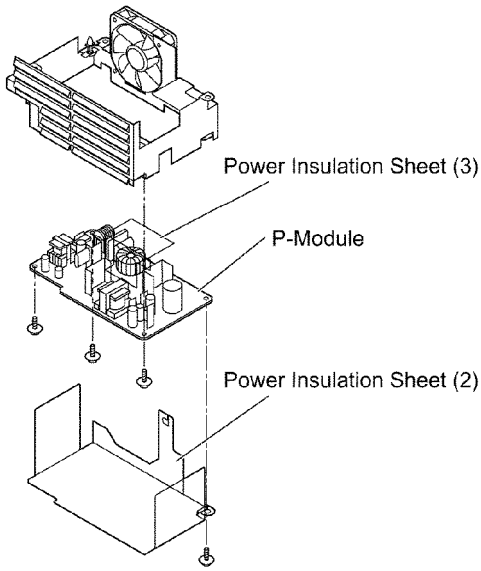


6.8. Removal of P-Module

1. **Remove the B-Module according to the section 6.7. "Removal of B-Module".**
2. **Unscrew the 2 screws and remove the P-Module block.**

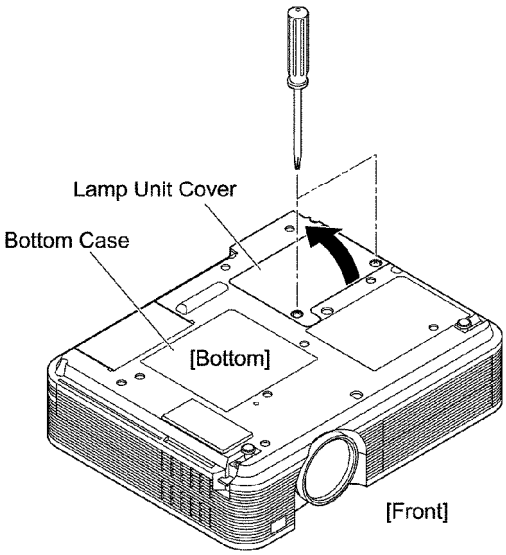


3. **Unscrew the 4 screws, remove the power insulation sheet (2), power insulation sheet (3) and P-Module.**

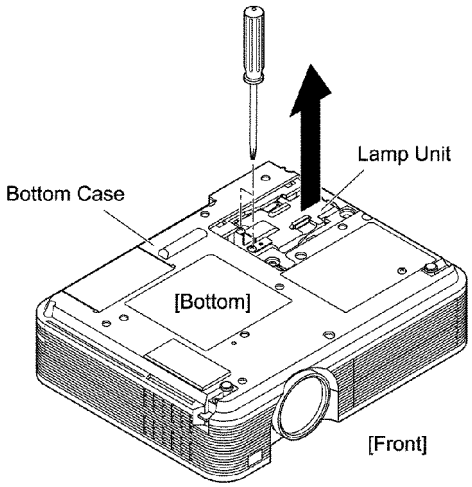


6.9. Removal of Lamp Unit

1. **Turn the projector upside down.**
2. **Loosen the 2 screws until they idle, lift the lamp unit cover to remove.**

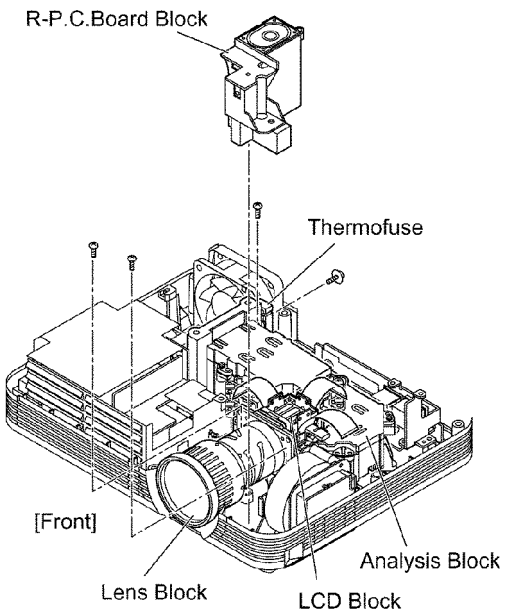


3. **Loosen the 2 screws fixing the lamp unit until they idle, remove the lamp unit.**

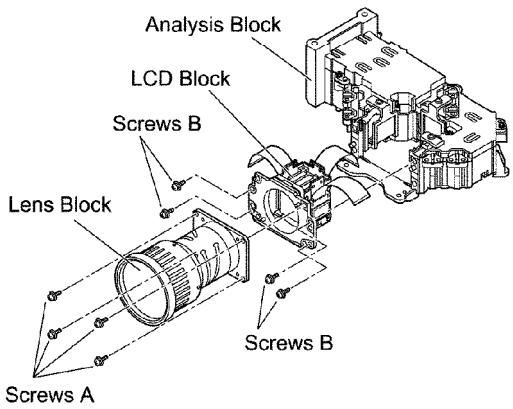


6.10. Removal of Analysis Block, LCD Block and Lens Block

1. **Remove the lamp unit according to the section 6.9. "Removal of Lamp Unit".**
2. **Return the projector to the normal position.**
3. **Remove the upper case, A-P.C.Board and S-P.C.Board block according to the steps 1 through 4 in the section 6.7. "Removal of B-Module".**
4. **Remove the R-P.C.Board block. (Take it upward to remove.)**
5. **Unscrew the 1 screw and separate the thermofuse from the analysis block.**
6. **Unscrew the 3 screws and remove the analysis/LCD/lens block.**



7. Unscrew the 4 screws A to separate the lens block and the LCD block, unscrew the 4 screws B to separate the LCD block and the analysis block.



6.11. Replacement of LCD Panel

1. Remove the analysis/LCD/lens block according to the section 6.10. "Removal of Analysis Block, LCD Block and Lens Block".

2. Unscrew the 4 screws and replace the LCD panel. (Remove the old LCD panel and install the new one.)

Note:

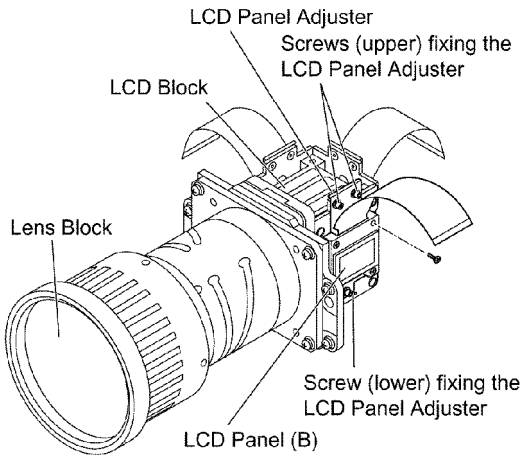
- Be careful not to touch the LCD panel surface.

3. Use a hexagon head wrench, loosen the 3 screws fixing the LCD

panel adjuster and screw them temporarily just until the adjuster can be shifted by your fingers.

Note:

- Work carefully not to damage the flexible cable.

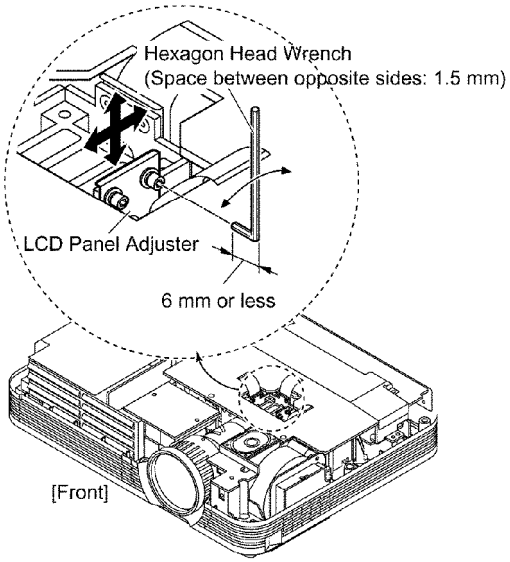

LCD Panel Adjuster
Screws (upper) fixing the LCD Panel Adjuster
LCD Block
Lens Block
Screw (lower) fixing the LCD Panel Adjuster
LCD Panel (B)

4. **Reassemble the projector in the reverse order of disassembling, but leave the upper case as it is removed.**
5. **Adjust the convergence according to the section 7.4. "Convergence Adjustment".**
6. **After the adjustment, screw the 2 screws (upper) fixing the LCD panel adjuster temporarily with care not to vary the adjusting result.**

Notes:

- Work carefully not to damage the flexible cable.

- Prepare a hexagon head wrench as shown in figure below.



7. Remove the analysis/LCD/lens block again.

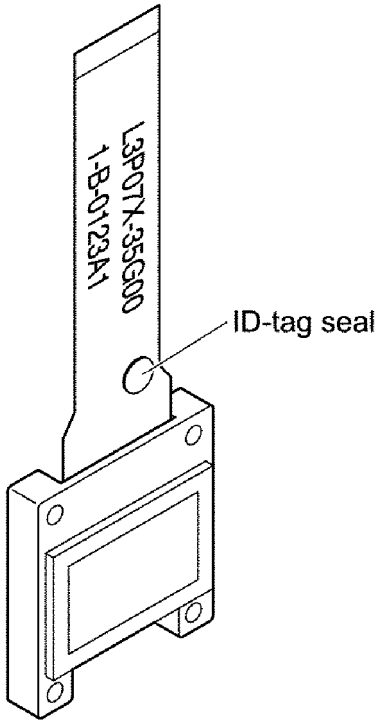
8. Tighten the 3 screws fixing the LCD panel adjuster.

Note:

- Work carefully not to damage the flexible cable.

9. Reassemble the projector as it was.

6.12. LCD Panel Discrimination



ID-tag seal color	LCD panel
Red	LCD panel (R)
Blue	LCD panel (B)
(No seal)	LCD panel (G)

6.13. LCD Panel Combination

- Part number is printed on the FPC of LCD Panel.

- When replacing LCD Panel, use a component which has the same part number as the original.

Model number	LCD panel	Combination
PT-LC75U/E / PT-U1X65	R	L5BDAXQ00083 / (L3P07X-35G00)
	G	L5BDAXQ00084 / (L3P07X-35G00)
	B	L5BDAXQ00085 / (L3P07X-35G00)
PT-LC55U/E / PT-U1S65	R	L5BDAXN00037 / (L3P07S-31G00)
	G	L5BDAXN00038 / (L3P07S-31G00)
	B	L5BDAXN00039 / (L3P07S-31G00)

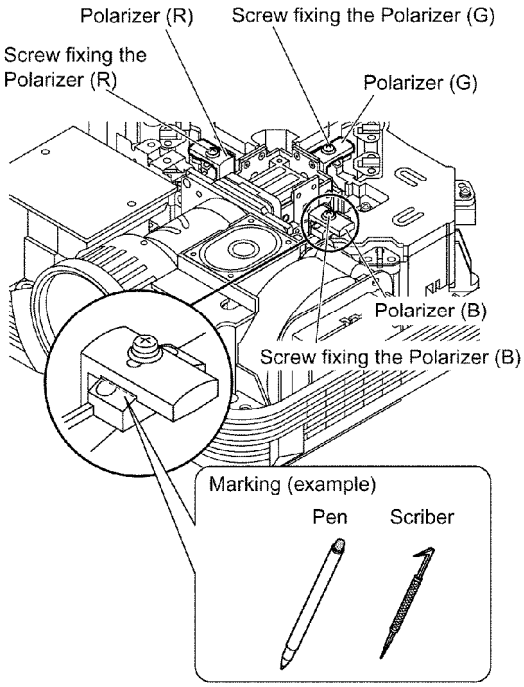
6.14. Replacement of Polarizer

1. Remove the upper case according to the section 6.2. "Removal of Upper Case".
2. Remove the A-P.C.Board according to the section 6.3. "Removal of A-P.C.Board".
3. Mark positions of the polarizer (R/G/B).

Note:

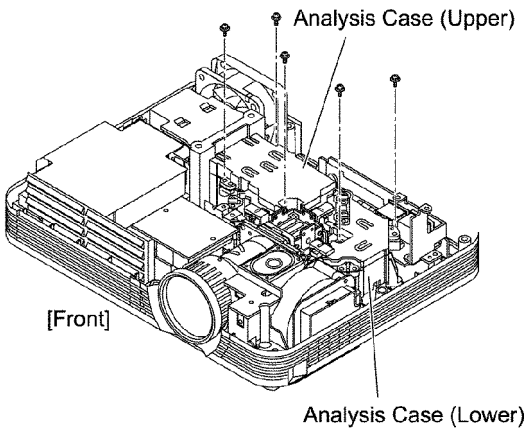
- Mark accurately as possible because the marks will be used for resetting the polarizer position.

4. Unscrew each screw fixing the polarizer and remove the polarizer.
5. Attach a new polarizer and align it with the mark.
6. Tighten the screw fixing the polarizer with care not to move its position.

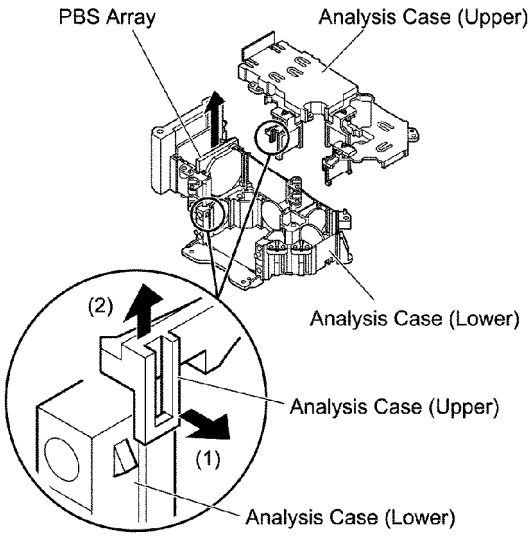


6.15. Replacement of PBS Array (Analysis Block)

1. **Remove the upper case according to the section 6.2. "Removal of Upper Case".**
2. **Remove the A-P.C.Board according to the section 6.3. "Removal of A-P.C.Board".**
3. **Unscrew the 5 screws fixing the analysis case (upper).**



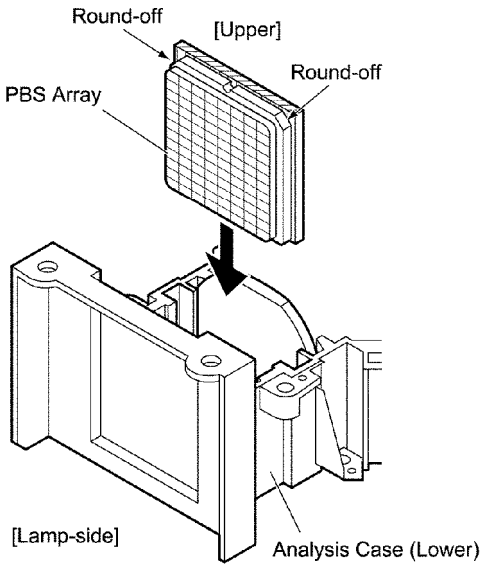
4. **Disconnect 2 joint hooks of the analysis cases and remove the analysis case (upper).**



Notes:

- **While pulling the hook of the analysis case (upper) in the direction of arrow (1), unhook it from the analysis case (lower).**
- **Polarizers (R/G/B) are attached on the analysis case (upper). Handle with care not to apply external force to the polarizers.**
- **Do not touch optical components (lens, mirror, etc.) of the analysis block. If dirt or aberration has brought into existence, efficiency of the projector may deteriorate.**

5. Take the PBS array with the edges and replace it.

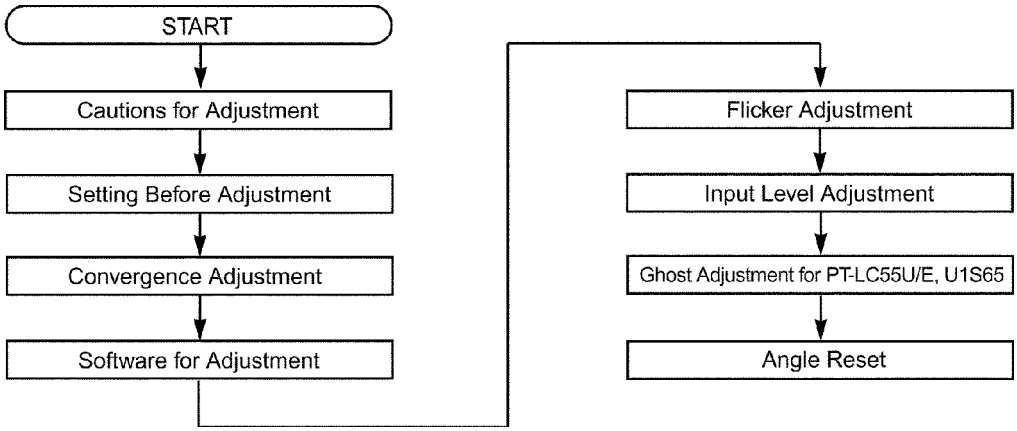


Note:

- **When attaching a new PBS array, be careful not to mistake the direction.**

7. Measurement and Adjustments

7.1. Adjustment Procedure Flowchart

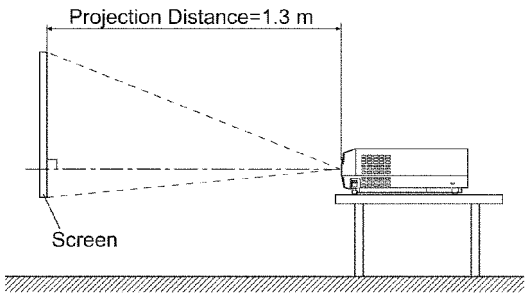


7.2. Cautions for Adjustment

- Never turn off the MAIN POWER switch until every fan completely stops.
- To maintain and ensure safety, always use the designated components for replacement parts.
- If removing any clamps, lead wires or connectors, always place them back in their proper locations.
- Be careful not to damage the lead wires or components when using a soldering iron or similar tool.

7.3. Setting Before Adjustment

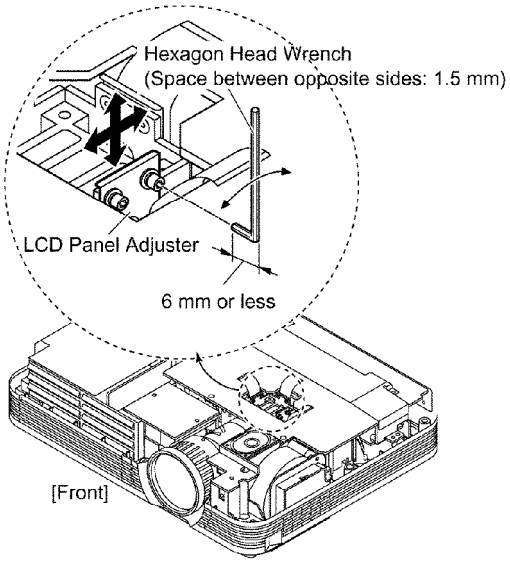
- Set up the projector to obtain the projection distance below.
- Turn the zoom ring of the projector to obtain the largest size of the picture.



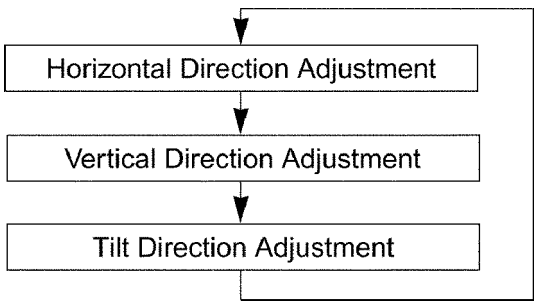
7.4. Convergence Adjustment

7.4.1. Basic Adjustment Procedure

1. **According to the section 6.11. "Replacement of LCD Panel", loosen the 3 screws fixing the LCD panel adjuster and screw them temporarily just until the adjuster can be shifted by your fingers.**



2. **Reassemble the projector in the reverse order of disassembling, but leave the upper case as it is removed.**
3. **Repeat the following steps until the red, green and blue crosshatch patterns merge into a white pattern.**



Note:
Because the projected picture may move opposite in direction to the move of the LCD panel, adjust the convergence observing the real projected picture carefully.

4. **Reassemble the projector according to the steps 6 through 9 in the section 6.11. "Replacement of LCD Panel".**

7.4.2. Adjustment after Every LCD Panel or LCD Block Replacement

1. **Display the green crosshatch pattern and adjust the lens focus.**

2. Adjust the LCD panel (G) position to place the center position of the crosshatch pattern to the center on the screen.
3. Correct the tilt of the green crosshatch pattern.
4. Display the white crosshatch pattern.
5. Adjust the LCD panels (R) and (B) to merge the red and blue patterns with the green.

7.4.3. Adjustment after LCD Panel (G) Replacement

1. Display the white crosshatch pattern and adjust the lens focus.
2. Adjust the LCD panel (G) to merge the green pattern with the red and blue ones.

7.4.4. Adjustment after LCD Panel (R) Replacement

1. Display the white crosshatch pattern and adjust the lens focus.
2. Adjust the LCD panel (R) to merge the green pattern with the green and blue ones.

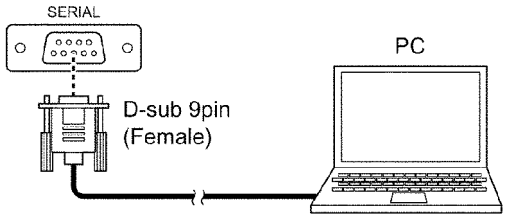
7.4.5. Adjustment after LCD Panel (B) Replacement

1. Display the white crosshatch pattern and adjust the lens focus.
2. Adjust the LCD panel (B) to merge the green pattern with the green and red ones.

7.5. Software for Adjustment

7.5.1. Outline

- This projector needs computer-aided adjustments.
- After the software adjustments, this projector must be turned off and on again to memorize the settings.
- Connect the cable between the projector and a PC as shown below.
- Updating the software will change the version number.



7.5.2. Operating Procedure

1. Run software program by the keyboard entry.

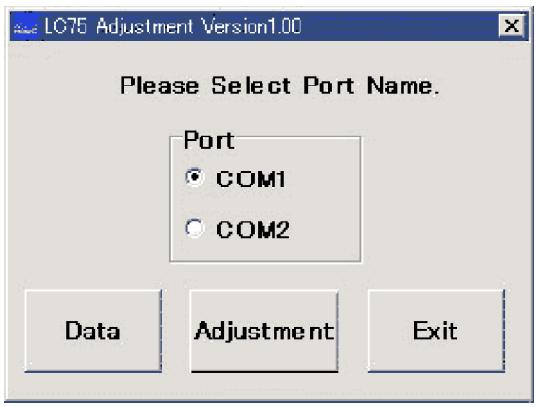
Note:

- Use the software program as below.
PT-LC75U/E, U1X65: LC75 Adjustment Ver 1.00 (or later)
PT-LC55U/E, U1S65: LC55 Adjustment Ver 1.00 (or later)

2. The first menu is the port selection menu.

3. Adjust the projector by selecting the necessary item from the menu in each stage.

7.5.3. Port Selection Menu



Select "COM 1" or "COM 2" and click "Data" or "Adjustment".

7.5.3.1. Explanation of Buttons

Data:
Displays the data send/receive menu.

Adjustment:
Displays the adjustment menu.

Exit:
Exits this application.

7.5.4. Data Send/Receive Menu

7.5.4.1. Explanation of Buttons

Micom Data Send:
Reads the microcomputer data from the file and sends it to the projector.

Micom Data Receive:
Receives the microcomputer data from the projector and writes it in the file.

Gamma Data Send:
Reads the gamma data from the file and sends it to the projector.

Gamma Data Receive:
Receives the gamma data from the projector and writes it in the file.

Uniformity Data Send:
Reads the color unevenness correction data from the file and sends it to the projector.

Uniformity Data Receive:
Receives the color unevenness correction data from the projector and writes it in the file.

FPGA Data Send:
Reads the FPGA data from the file and sends it to the projector.

FPGA Data Receive:
Receives the FPGA data from the projector and writes it in the file.

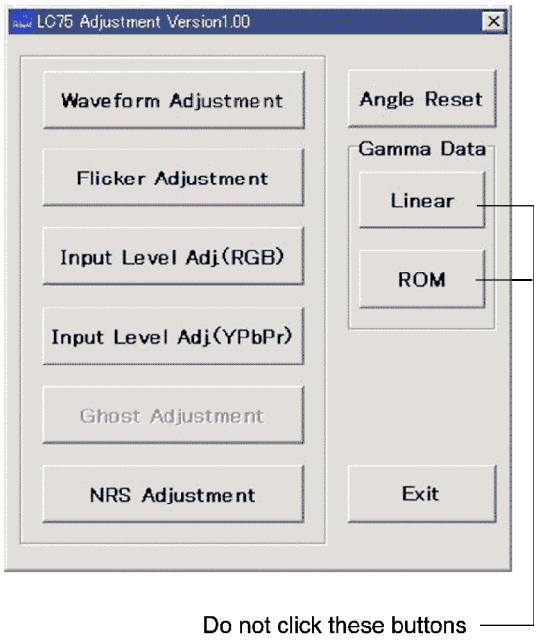
Exit:
Exits this application.

7.5.4.2. Receiving and sending of the data

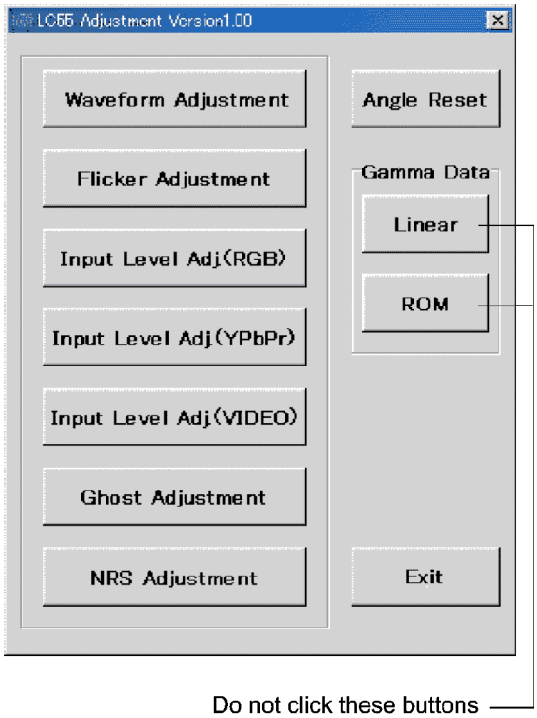
Click a target button and specify a file name.

7.5.5. Adjustment Menu

PT-LC75/U1X65



PT-LC55/U1S65



7.5.5.1. Explanation of Buttons

Waveform Adjustment:
This button is not used.

Flicker Adjustment:
Displays the flicker adjustment menu.

Input Level Adjustment (RGB):
Displays the PC input level adjustment menu.

Input Level Adjustment (YPbPr):
Displays the component input level adjustment menu.

Input Level Adjustment (VIDEO):
Displays the video input level adjustment menu. [This button is displayed only for the software program LC55 Adjustment Ver 1.00 (or later).]

Ghost Adjustment:
Displays the ghost adjustment menu. [This button is available only for the software program LC55 Adjustment Ver 1.00 (or later).]

NRS Adjustment:
This button is not used.

Angle Reset:
Displays the angle reset menu.

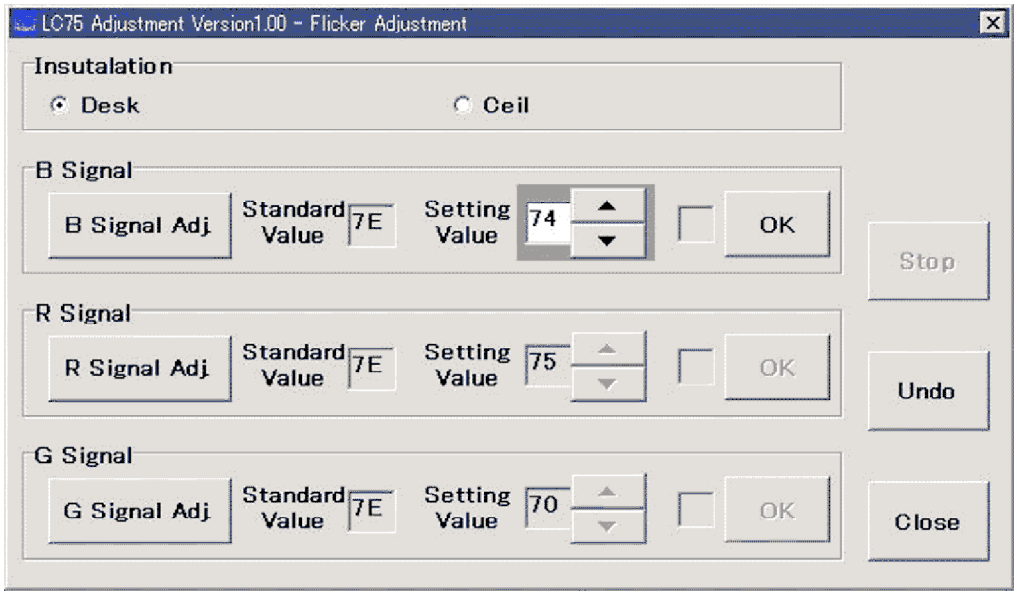
Gamma Data Linear:
This button is only used for factory. (Do not click this button.)

Gamma Data ROM:
This button is only used for factory. (Do not click this button.)

Exit:
Exits this application.

7.6. Flicker Adjustment

7.6.1. Adjustment Menu



7.6.2. Explanation of Buttons

Desk:
Sets the installation mode to the desk setting and receive the current data.

Ceil:
Sets the installation mode to the ceiling setting and receive the current data.

R Signal Adj.:
Sets the test signal mode to the R-signal and allows the "▲", "▼" and "OK" buttons of the R-signal to becomes active.

G Signal Adj.:
Sets the test signal mode to the G-signal and allows the "▲", "▼" and "OK" buttons of the G-signal to becomes active.

B Signal Adj.:
Sets the test signal mode to the B-signal and allows the "▲", "▼" and "OK" buttons of the B-signal to becomes active.

▲ or ▼
Changes the setting value and transmits its data. (The 8 and 2 keys on the keyboard have the same functions.) If releasing the mouse or key after pressing it continuously, the data is transmitted once. The variable setting value is enclosed ina box and using the TAB or SPACE key allows the move of the box.

OK:
Determines the setting value and stores its data in the EEPROM. (The ENTER key on the keyboard has the same function.) The item having two or more kinds of setting values is processed two or more items. Clicking this button or pressing ENTER keychanges the color of the text "OK" to cyan (light blue). If changing the setting value using the "▲" or "▼" button or the 8or 2 key, its color returns to black.

Stop:
Discontinues the communication. (This button is usually set for its inactive mode.)

Undo:
Returns the setting value to its original state and transmits its data. The color of the text "OK" returns to black.

Close:

Closes this menu.

7.6.3. Equipment to be used

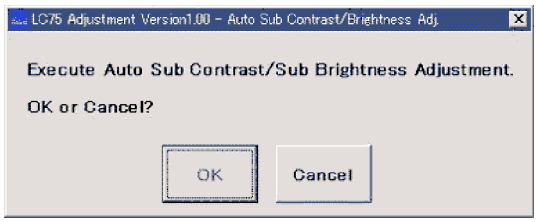
PC, Software for Adjustment

7.6.4. Adjustment Procedure

1. **Display the flicker adjustment menu.**
2. **Set the installation mode to the desk setting.**
3. **Click "R Signal Adj," and the red flicker adjustment pattern will be displayed.**
4. **Minimize the flicker while observing the projected pattern.**
5. **Click "G Signal Adj," and the green flicker adjustment pattern will be displayed.**
6. **Minimize the flicker while observing the projected pattern.**
7. **Click "B Signal Adj," and the blue flicker adjustment pattern will be displayed.**
8. **Minimize the flicker while observing the projected pattern.**
9. **Change the installation mode to the ceiling setting and follow steps 3 to 8 inclusive.**

7.7. Input Level Adjustment (RGB)

7.7.1. Adjustment Menu



7.7.2. Explanation of Buttons

OK:
Executes automatic sub contrast and sub brightness adjustments, then closes this dialog.

Cancel:
Cancels this menu.

7.7.3. Equipment to be used

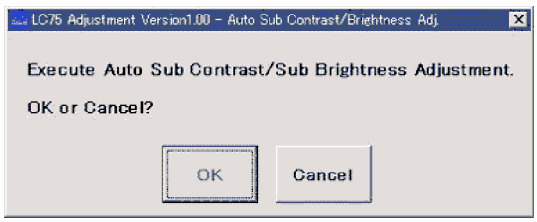
PC, Software for Adjustment, Signal Generator

7.7.4. Adjustment Procedure

1. Display the input level adjustment menu.
2. Input a window pattern signal to RGB1 IN connector.
   Note:
   Use approx. 15 % window pattern as follows.
   Black background (screen width) : White window width = 2 : 1
   Black background (screen height) : White window height = 3 : 1
3. Click the OK button.

7.8. Input Level Adjustment (YP_BP_R)

7.8.1. Adjustment Menu



7.8.2. Explanation of Buttons

OK:
Executes automatic sub contrast and sub brightness adjustments, then closes this dialog.

Cancel:
Cancels this menu.

7.8.3. Equipment to be used

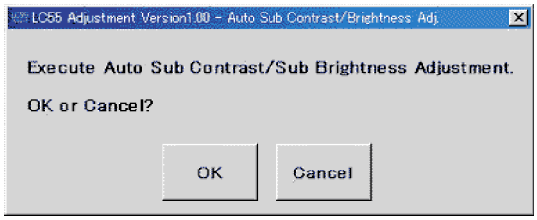
PC, Software for Adjustment, Signal Generator

7.8.4. Adjustment Procedure

1. Display the input level adjustment menu.
2. Input a 480p adjustment pattern signal to RGB1 IN connector.
3. Click the OK button.

7.9. Input Level Adjustment (VIDEO) for PT-LC55U/E, U1S65

7.9.1. Adjustment Menu



7.9.2. Explanation of Buttons

OK:
Executes automatic sub contrast and sub brightness adjustments, then closes this dialog.

Cancel:
Cancels this menu.

7.9.3. Equipment to be used

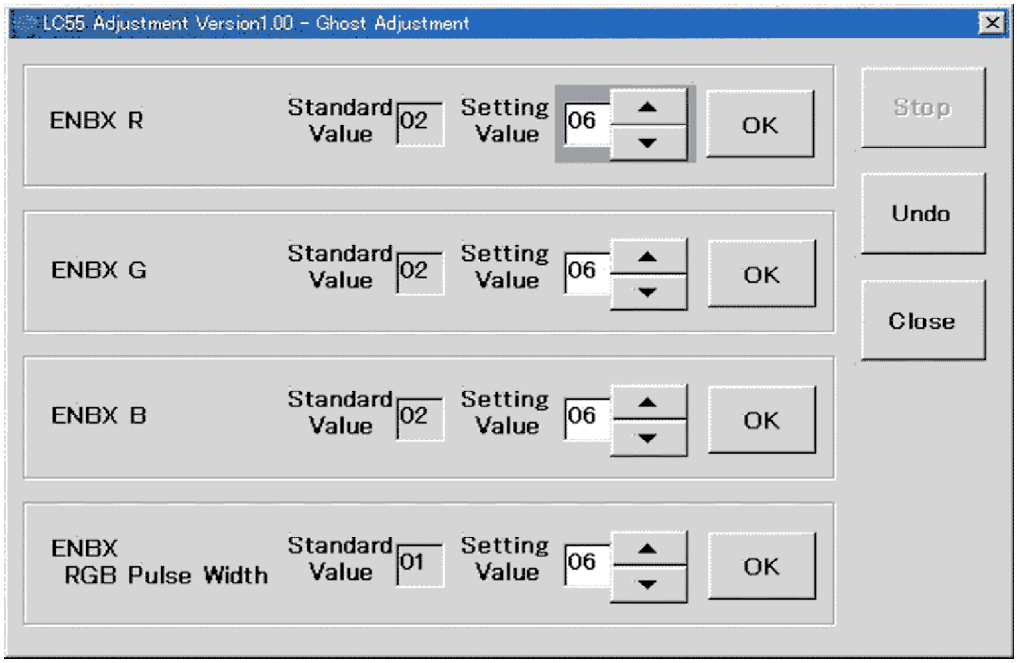
PC, Software for Adjustment, Signal Generator

7.9.4. Adjustment Procedure

1. **Display the input level adjustment menu.**
2. **Input a video adjustment pattern (window pattern) signal to VIDEO IN connector.**
   Note:
   Use approx. 15 % window pattern as follows.
   Black background (screen width) : White window width = 2 : 1
   Black background (screen height) : White window height = 3 : 1
3. **Click the OK button.**

7.10. Ghost Adjustment for PT-LC55U/E, U1S65

7.10.1. Adjustment Menu



7.10.2. Explanation of Buttons

▲or ▼

Changes the setting value and transmits its data. (The 8 and 2 keys on the keyboard have the same functions.) If releasing the mouse or key after pressing it continuously, the data is transmitted once. The variable setting value is enclosed ina box and using the TAB or SPACE key allows the move of the box.

OK:

Determines the setting value and stores its data in the EEPROM. (The ENTER key on the keyboard has the same function.) The item having two or more kinds of setting values is processed two or more items. Clicking this button or pressing ENTER keychanges the color of the text "OK" to cyan (light blue). If changing the setting value using the "▲" or "▼" button or the 8or 2 key, its color returns to black.

Stop:

Discontinues the communication. (This button is usually set for its inactive mode.)

Undo:

Returns the setting value to its original state and transmits its data. The color of the text "OK" returns to black.

Close:

Closes this menu.

7.10.3. Equipment to be used

PC, Software for Adjustment, Signal Generator

7.10.4. Adjustment Procedure

1. Display the ghost adjustment menu.

2. Input a checker pattern signal.

3. Minimize the ghost while observing the projected pattern.

4. Set the value to the point being its optimum value minus 1.

7.11. Angle Reset

7.11.1. Adjustment Menu

7.11.2. Explanation of Buttons

OK:
Executes angle reset, then closes this dialog.

Cancel:
Cancels this menu.

7.11.3. Equipment to be used

PC, Software for Adjustment

7.11.4. Adjustment Procedure

1. Display the angle reset menu.

2. Set the projector on a horizontal place.

Note:
This is used for the reference level of the angle sensor.

3. Click the OK button.

8. Troubleshooting

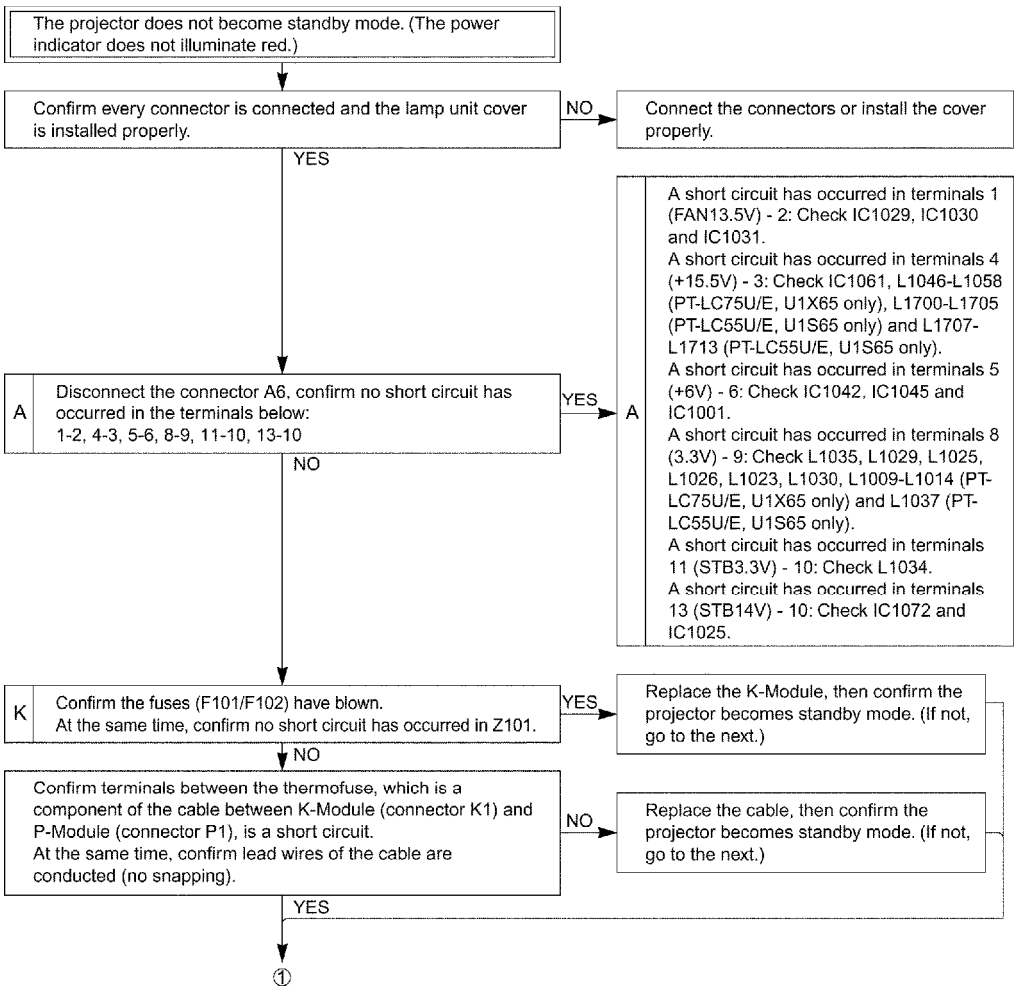
• The letters in the left of the inspection items indicate the P.C.Boards or Modules related to their respective descriptions.

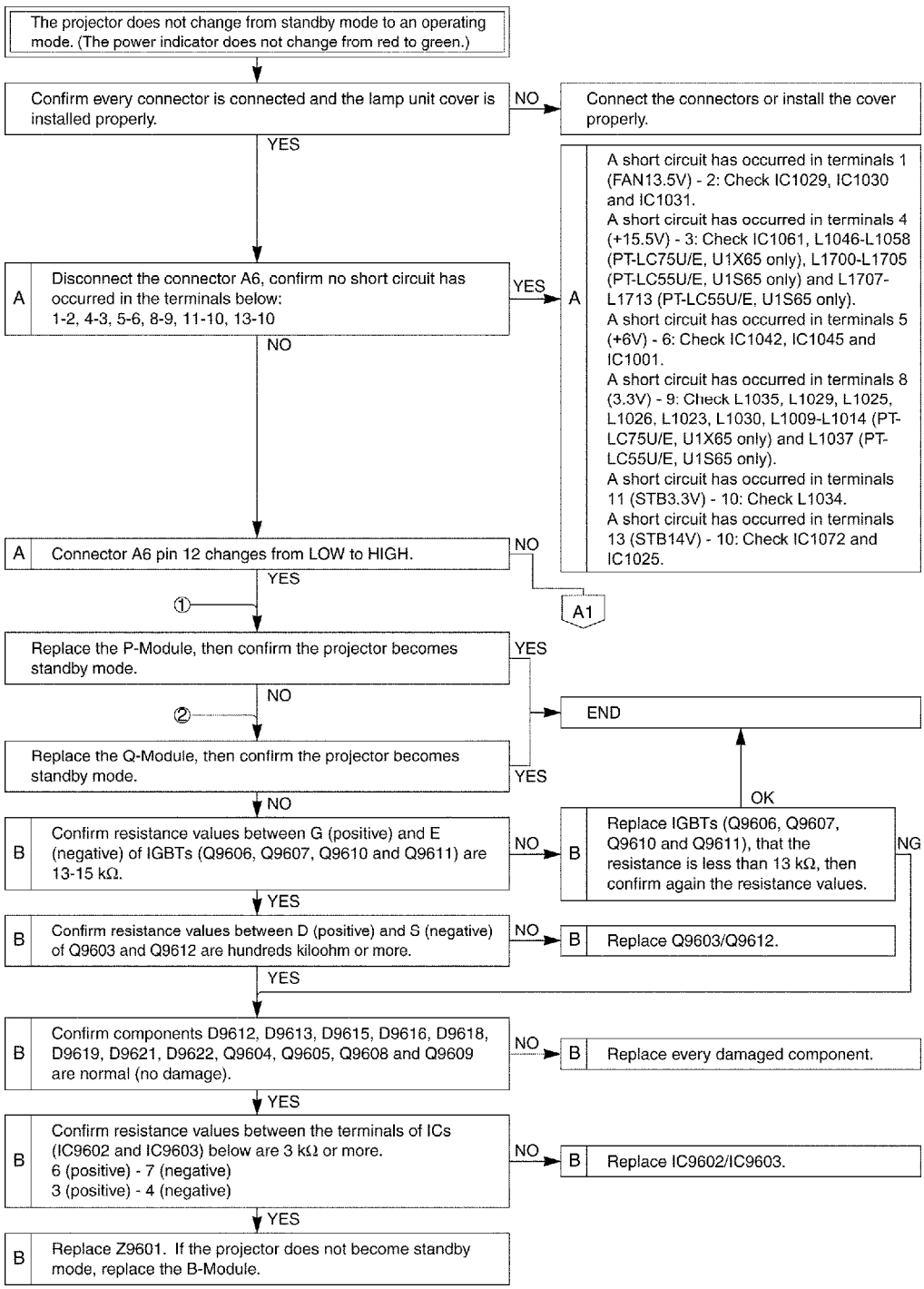
Note: (A)

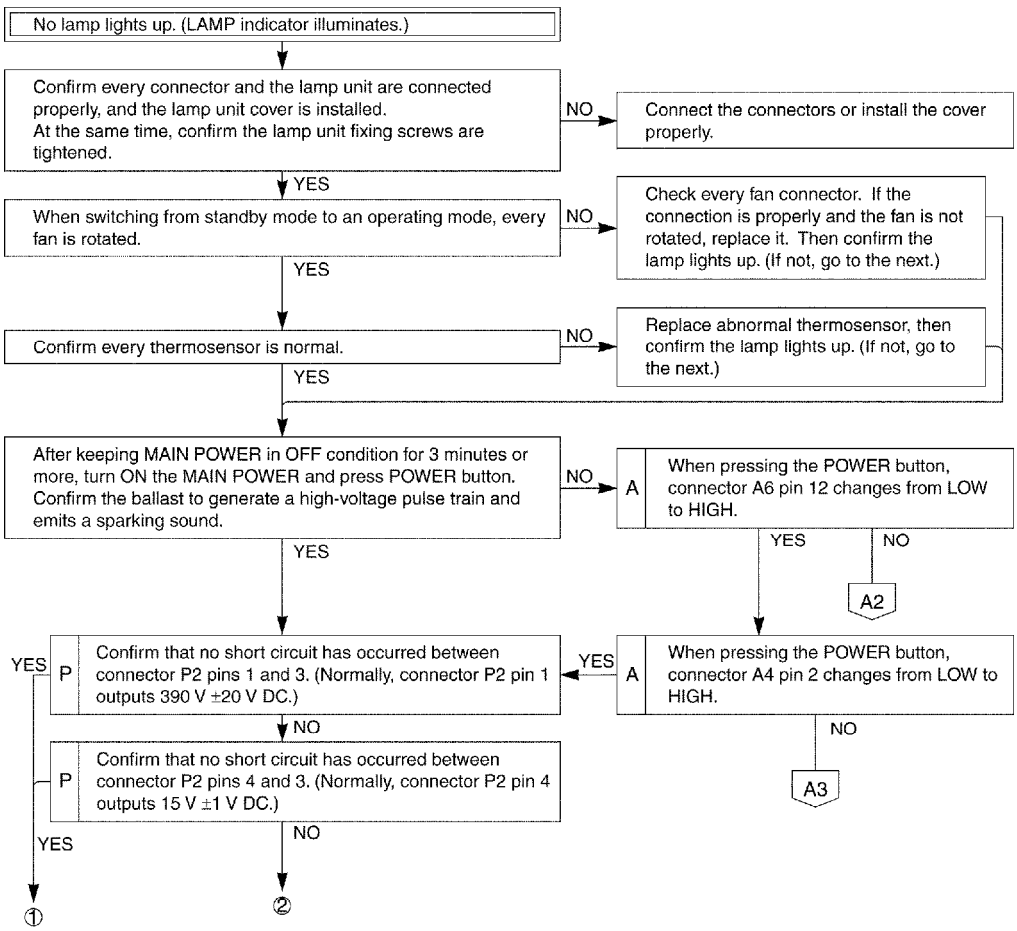
The letter of the alphabet indicates the P.C.Board or Module name.

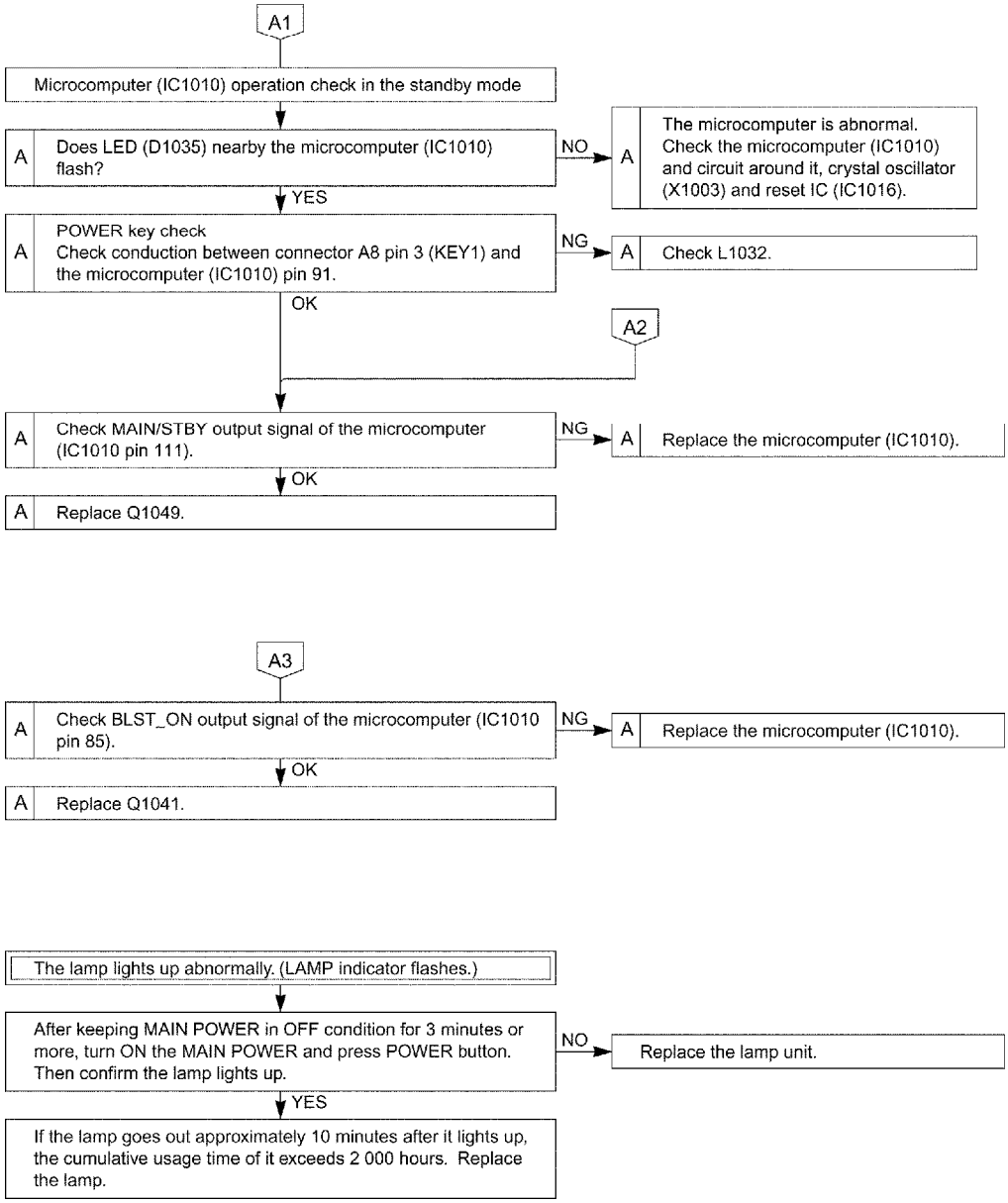
(Example) A: A-P.C.Board, K: K-Module

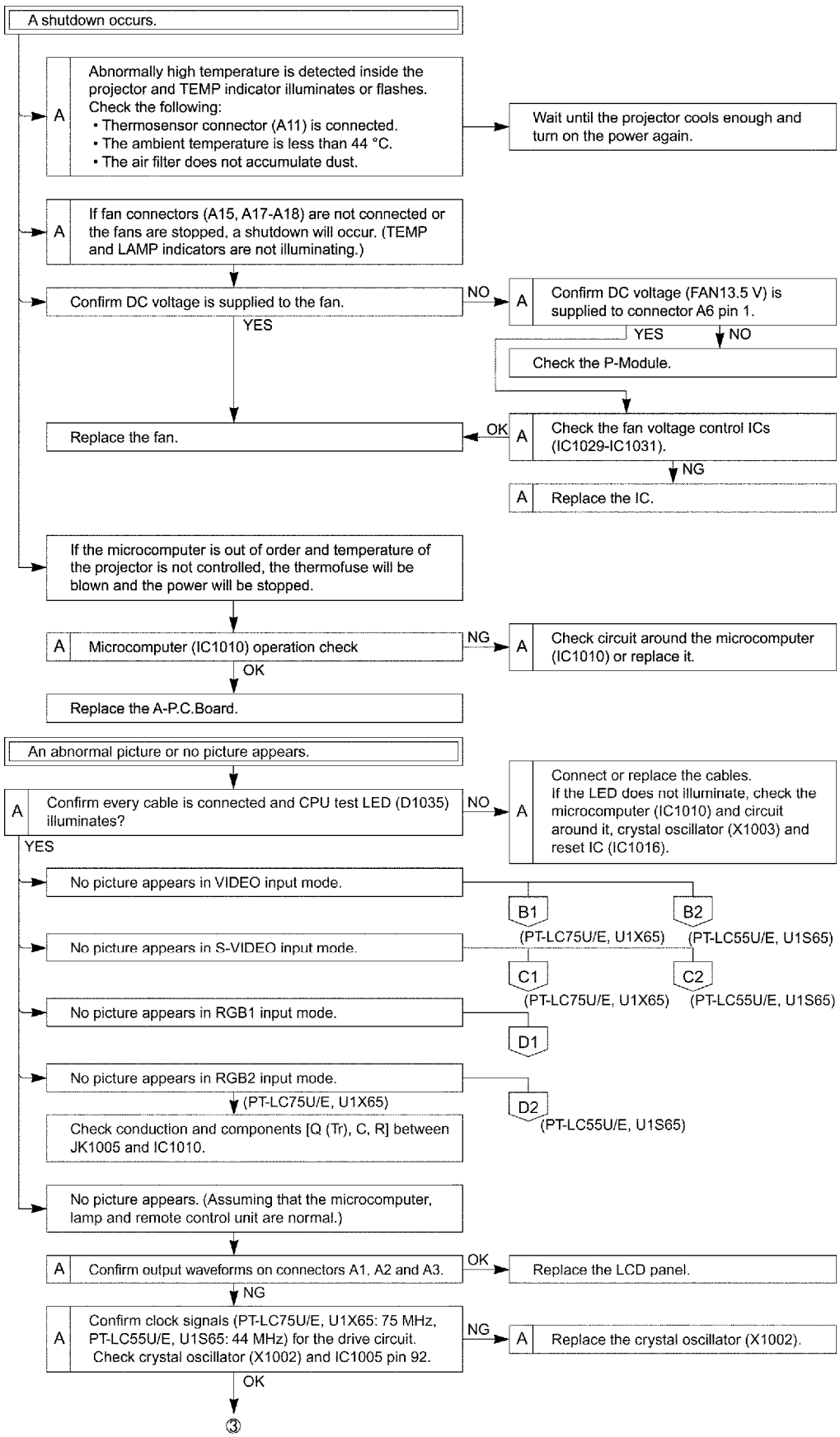
• If replacing A-P.C.Board (assembly), read the ROM data from the old P.C.Board and write it in the new one according to the section 7.5. "Software for Adjustment". At this time, if the readout from the old P.C.Board does not succeed, remove IC1011 and IC1017 from the old P.C.Board and install them on the new one.
• If replacing A-P.C.Board (assembly), adjust the Input Level according to the chapter 7 "Measurements and Adjustments".

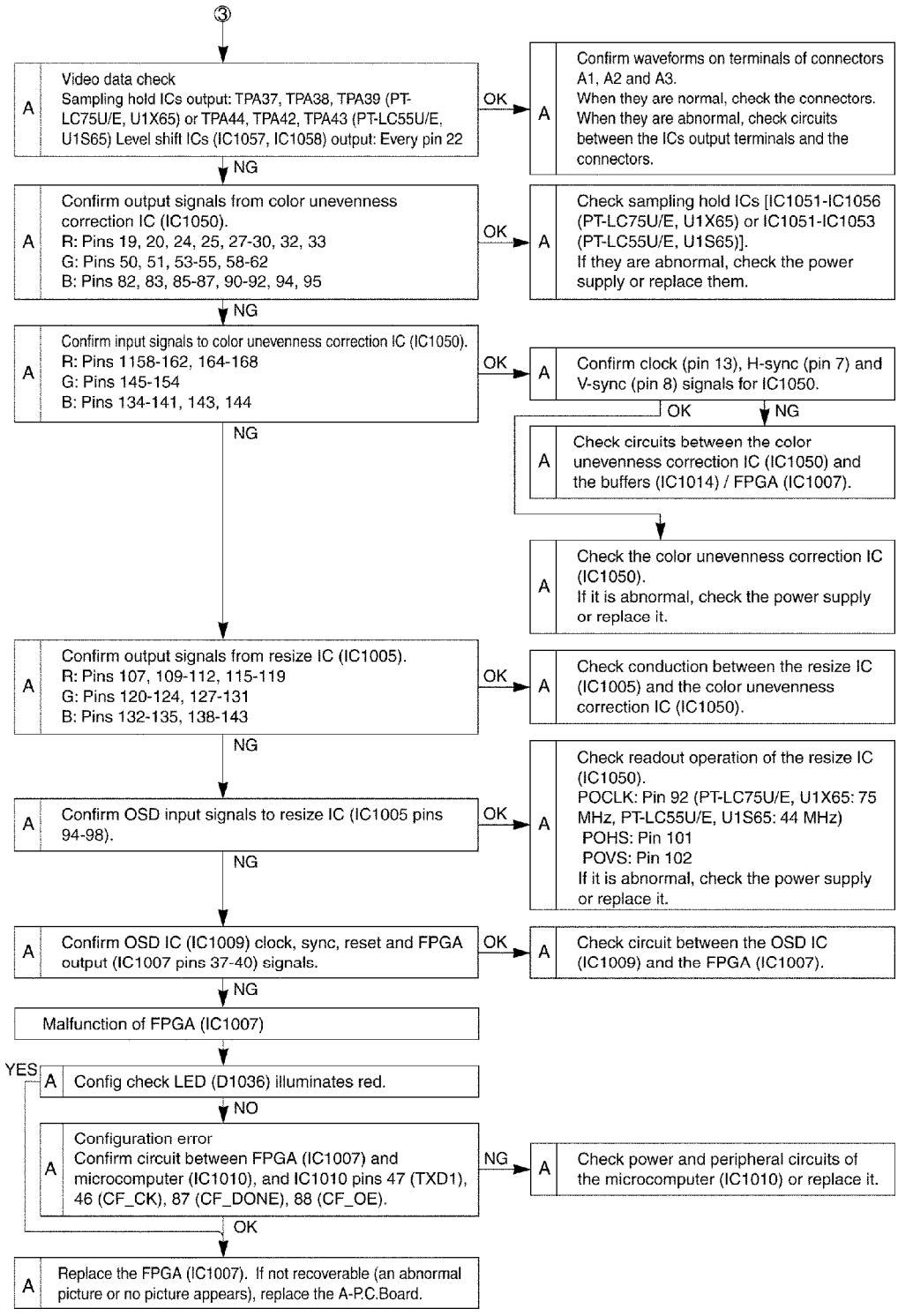

The projector does not become standby mode. (The power indicator does not illuminate red.)
Confirm every connector is connected and the lamp unit cover is installed properly.
NO
Connect the connectors or install the cover properly.
YES
A
Disconnect the connector A6, confirm no short circuit has occurred in the terminals below:
1-2, 4-3, 5-6, 8-9, 11-10, 13-10
YES
A
A short circuit has occurred in terminals 1 (FAN13.5V) - 2: Check IC1029, IC1030 and IC1031.
A short circuit has occurred in terminals 4 (+15.5V) - 3: Check IC1061, L1046-L1058 (PT-LC75U/E, U1X65 only), L1700-L1705 (PT-LC55U/E, U1S65 only) and L1707-L1713 (PT-LC55U/E, U1S65 only).
A short circuit has occurred in terminals 5 (+6V) - 6: Check IC1042, IC1045 and IC1001.
A short circuit has occurred in terminals 8 (3.3V) - 9: Check L1035, L1029, L1025, L1026, L1023, L1030, L1009-L1014 (PT-LC75U/E, U1X65 only) and L1037 (PT-LC55U/E, U1S65 only).
A short circuit has occurred in terminals 11 (STB3.3V) - 10: Check L1034.
A short circuit has occurred in terminals 13 (STB14V) - 10: Check IC1072 and IC1025.
NO
K
Confirm the fuses (F101/F102) have blown.
At the same time, confirm no short circuit has occurred in Z101.
YES
Replace the K-Module, then confirm the projector becomes standby mode. (If not, go to the next.)
NO
Confirm terminals between the thermofuse, which is a component of the cable between K-Module (connector K1) and P-Module (connector P1), is a short circuit.
At the same time, confirm lead wires of the cable are conducted (no snapping).
NO
Replace the cable, then confirm the projector becomes standby mode. (If not, go to the next.)
YES
①

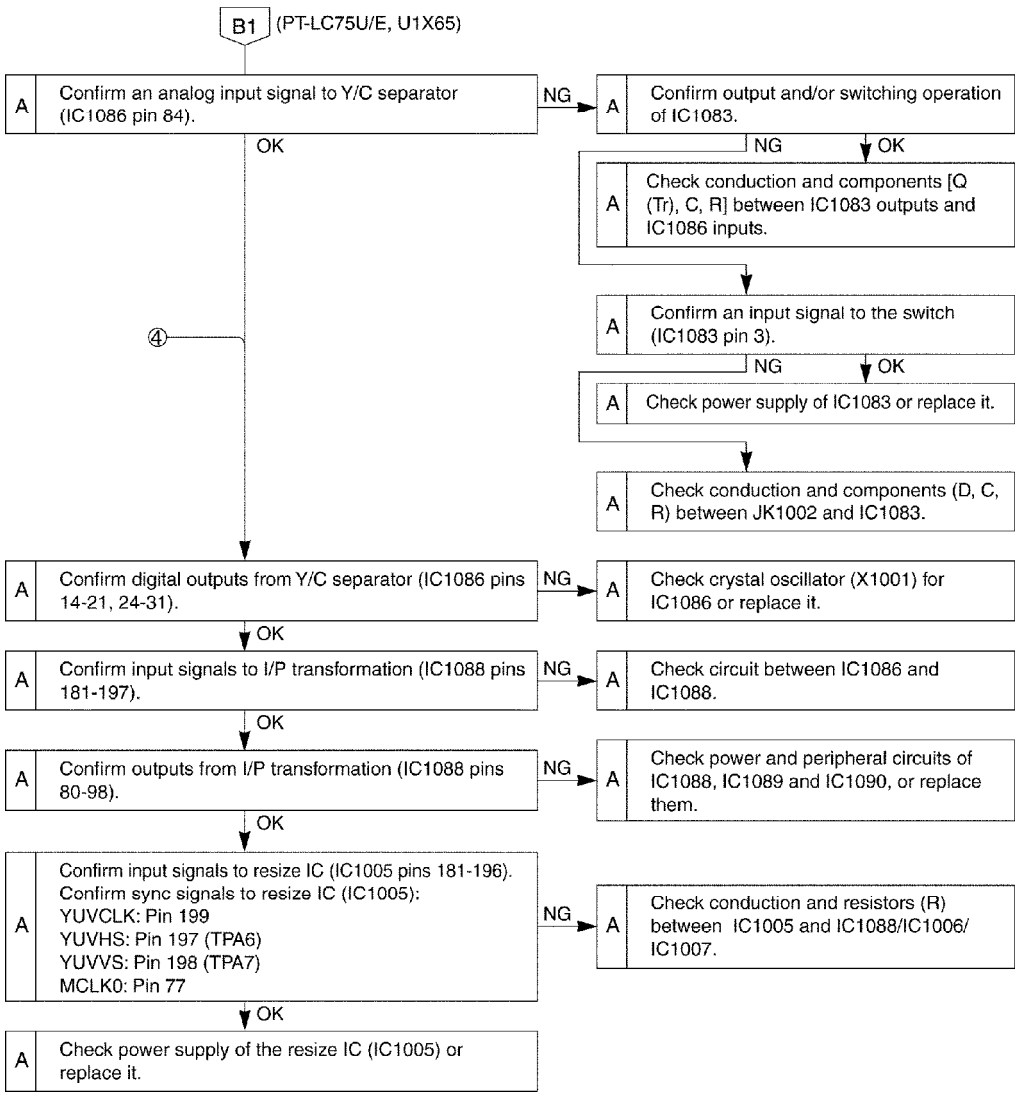

The projector does not change from standby mode to an operating mode. (The power indicator does not change from red to green.)
Confirm every connector is connected and the lamp unit cover is installed properly.
NO
Connect the connectors or install the cover properly.
YES
A
Disconnect the connector A6, confirm no short circuit has occurred in the terminals below:
1-2, 4-3, 5-6, 8-9, 11-10, 13-10
YES
A
A short circuit has occurred in terminals 1 (FAN13.5V) - 2: Check IC1029, IC1030 and IC1031.
A short circuit has occurred in terminals 4 (+15.5V) - 3: Check IC1061, L1046-L1058 (PT-LC75U/E, U1X65 only), L1700-L1705 (PT-LC55U/E, U1S65 only) and L1707-L1713 (PT-LC55U/E, U1S65 only).
A short circuit has occurred in terminals 5 (+6V) - 6: Check IC1042, IC1045 and IC1001.
A short circuit has occurred in terminals 8 (3.3V) - 9: Check L1035, L1029, L1025, L1026, L1023, L1030, L1009-L1014 (PT-LC75U/E, U1X65 only) and L1037 (PT-LC55U/E, U1S65 only).
A short circuit has occurred in terminals 11 (STB3.3V) - 10: Check L1034.
A short circuit has occurred in terminals 13 (STB14V) - 10: Check IC1072 and IC1025.
NO
A
Connector A6 pin 12 changes from LOW to HIGH.
NO
YES
①
A1
Replace the P-Module, then confirm the projector becomes standby mode.
YES
NO
②
END
Replace the Q-Module, then confirm the projector becomes standby mode.
YES
OK
NO
B
Confirm resistance values between G (positive) and E (negative) of IGBTs (Q9606, Q9607, Q9610 and Q9611) are 13-15 kΩ.
NO
B
Replace IGBTs (Q9606, Q9607, Q9610 and Q9611), that the resistance is less than 13 kΩ, then confirm again the resistance values.
NG
YES
B
Confirm resistance values between D (positive) and S (negative) of Q9603 and Q9612 are hundreds kiloohm or more.
NO
B
Replace Q9603/Q9612.
YES
B
Confirm components D9612, D9613, D9615, D9616, D9618, D9619, D9621, D9622, Q9604, Q9605, Q9608 and Q9609 are normal (no damage).
NO
B
Replace every damaged component.
YES
B
Confirm resistance values between the terminals of ICs (IC9602 and IC9603) below are 3 kΩ or more.
6 (positive) - 7 (negative)
3 (positive) - 4 (negative)
NO
B
Replace IC9602/IC9603.
YES
B
Replace Z9601. If the projector does not become standby mode, replace the B-Module.

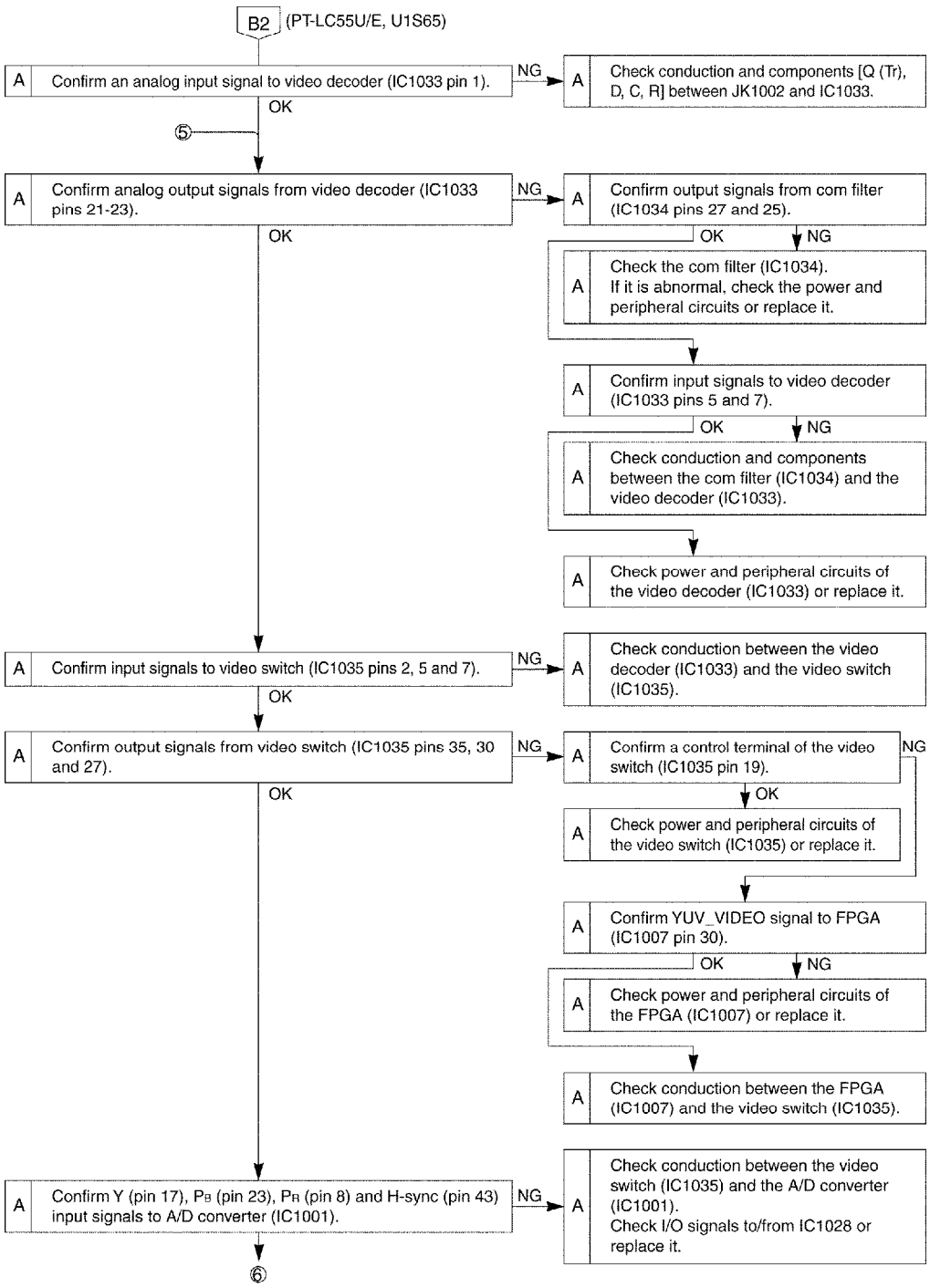

No lamp lights up. (LAMP indicator illuminates.)
Confirm every connector and the lamp unit are connected properly, and the lamp unit cover is installed.
At the same time, confirm the lamp unit fixing screws are tightened.
NO
Connect the connectors or install the cover properly.
YES
When switching from standby mode to an operating mode, every fan is rotated.
NO
Check every fan connector. If the connection is properly and the fan is not rotated, replace it. Then confirm the lamp lights up. (If not, go to the next.)
YES
Confirm every thermosensor is normal.
NO
Replace abnormal thermosensor, then confirm the lamp lights up. (If not, go to the next.)
YES
After keeping MAIN POWER in OFF condition for 3 minutes or more, turn ON the MAIN POWER and press POWER button. Confirm the ballast to generate a high-voltage pulse train and emits a sparking sound.
NO
A
When pressing the POWER button, connector A6 pin 12 changes from LOW to HIGH.
YES
NO
A2
YES
P
Confirm that no short circuit has occurred between connector P2 pins 1 and 3. (Normally, connector P2 pin 1 outputs 390 V ±20 V DC.)
YES
A
When pressing the POWER button, connector A4 pin 2 changes from LOW to HIGH.
NO
A3
NO
P
Confirm that no short circuit has occurred between connector P2 pins 4 and 3. (Normally, connector P2 pin 4 outputs 15 V ±1 V DC.)
YES
NO
①
②

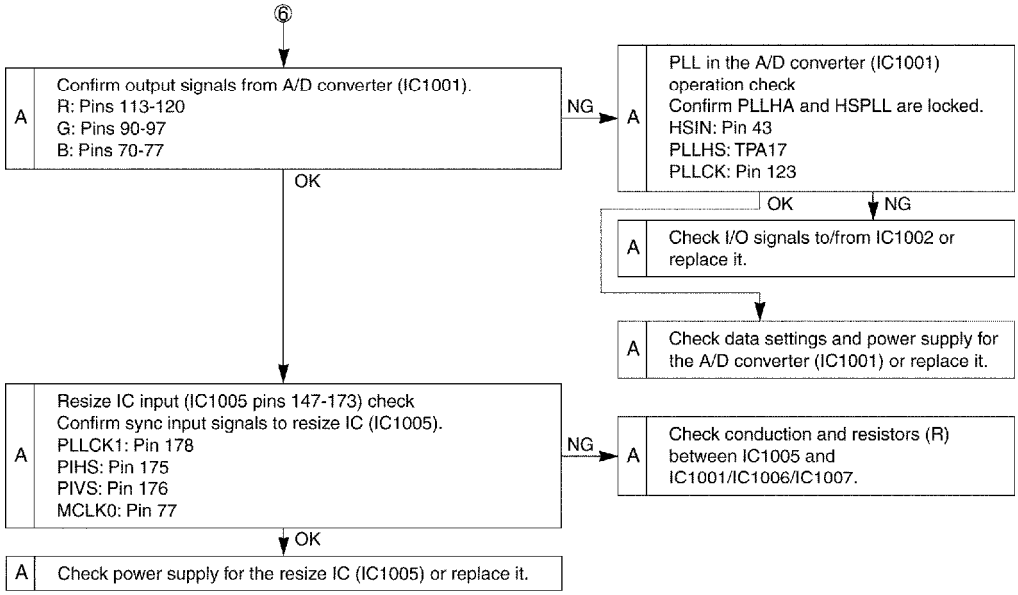

A1
Microcomputer (IC1010) operation check in the standby mode
A
Does LED (D1035) nearby the microcomputer (IC1010) flash?
NO
A
The microcomputer is abnormal. Check the microcomputer (IC1010) and circuit around it, crystal oscillator (X1003) and reset IC (IC1016).
YES
A
POWER key check
Check conduction between connector A8 pin 3 (KEY1) and the microcomputer (IC1010) pin 91.
NG
A
Check L1032.
OK
A2
A
Check MAIN/STBY output signal of the microcomputer (IC1010 pin 111).
NG
A
Replace the microcomputer (IC1010).
OK
A
Replace Q1049.
A3
A
Check BLST_ON output signal of the microcomputer (IC1010 pin 85).
NG
A
Replace the microcomputer (IC1010).
OK
A
Replace Q1041.
The lamp lights up abnormally. (LAMP indicator flashes.)
After keeping MAIN POWER in OFF condition for 3 minutes or more, turn ON the MAIN POWER and press POWER button. Then confirm the lamp lights up.
NO
Replace the lamp unit.
YES
If the lamp goes out approximately 10 minutes after it lights up, the cumulative usage time of it exceeds 2 000 hours. Replace the lamp.

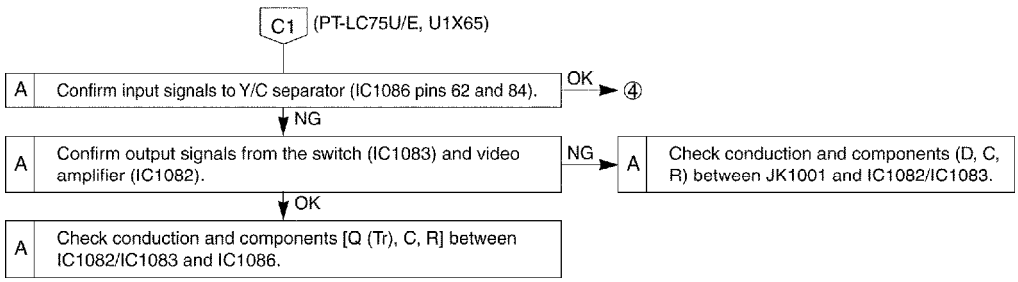

A shutdown occurs.
A
Abnormally high temperature is detected inside the projector and TEMP indicator illuminates or flashes. Check the following:
• Thermosensor connector (A11) is connected.
• The ambient temperature is less than 44 °C.
• The air filter does not accumulate dust.
Wait until the projector cools enough and turn on the power again.
A
If fan connectors (A15, A17-A18) are not connected or the fans are stopped, a shutdown will occur. (TEMP and LAMP indicators are not illuminating.)
Confirm DC voltage is supplied to the fan.
NO
A
Confirm DC voltage (FAN13.5 V) is supplied to connector A6 pin 1.
YES
NO
Check the P-Module.
YES
Replace the fan.
OK
A
Check the fan voltage control ICs (IC1029-IC1031).
NG
A
Replace the IC.
If the microcomputer is out of order and temperature of the projector is not controlled, the thermofuse will be blown and the power will be stopped.
A
Microcomputer (IC1010) operation check
NG
A
Check circuit around the microcomputer (IC1010) or replace it.
OK
Replace the A-P.C.Board.
An abnormal picture or no picture appears.
A
Confirm every cable is connected and CPU test LED (D1035) illuminates?
NO
A
Connect or replace the cables.
If the LED does not illuminate, check the microcomputer (IC1010) and circuit around it, crystal oscillator (X1003) and reset IC (IC1016).
YES
No picture appears in VIDEO input mode.
B1
(PT-LC75U/E, U1X65)
B2
(PT-LC55U/E, U1S65)
No picture appears in S-VIDEO input mode.
C1
(PT-LC75U/E, U1X65)
C2
(PT-LC55U/E, U1S65)
No picture appears in RGB1 input mode.
D1
No picture appears in RGB2 input mode.
(PT-LC75U/E, U1X65)
D2
(PT-LC55U/E, U1S65)
Check conduction and components [Q (Tr), C, R] between JK1005 and IC1010.
No picture appears. (Assuming that the microcomputer, lamp and remote control unit are normal.)
A
Confirm output waveforms on connectors A1, A2 and A3.
OK
Replace the LCD panel.
NG
A
Confirm clock signals (PT-LC75U/E, U1X65: 75 MHz, PT-LC55U/E, U1S65: 44 MHz) for the drive circuit. Check crystal oscillator (X1002) and IC1005 pin 92.
NG
A
Replace the crystal oscillator (X1002).
OK
③

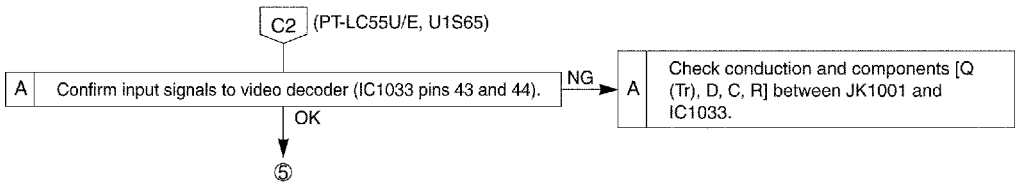

③
A
Video data check
Sampling hold ICs output: TPA37, TPA38, TPA39 (PT-LC75U/E, U1X65) or TPA44, TPA42, TPA43 (PT-LC55U/E, U1S65) Level shift ICs (IC1057, IC1058) output: Every pin 22
OK
A
Confirm waveforms on terminals of connectors A1, A2 and A3.
When they are normal, check the connectors.
When they are abnormal, check circuits between the ICs output terminals and the connectors.
NG
A
Confirm output signals from color unevenness correction IC (IC1050).
R: Pins 19, 20, 24, 25, 27-30, 32, 33
G: Pins 50, 51, 53-55, 58-62
B: Pins 82, 83, 85-87, 90-92, 94, 95
OK
A
Check sampling hold ICs [IC1051-IC1056 (PT-LC75U/E, U1X65) or IC1051-IC1053 (PT-LC55U/E, U1S65)].
If they are abnormal, check the power supply or replace them.
NG
A
Confirm input signals to color unevenness correction IC (IC1050).
R: Pins 1158-162, 164-168
G: Pins 145-154
B: Pins 134-141, 143, 144
OK
A
Confirm clock (pin 13), H-sync (pin 7) and V-sync (pin 8) signals for IC1050.
OK
NG
A
Check circuits between the color unevenness correction IC (IC1050) and the buffers (IC1014) / FPGA (IC1007).
NG
A
Check the color unevenness correction IC (IC1050).
If it is abnormal, check the power supply or replace it.
A
Confirm output signals from resize IC (IC1005).
R: Pins 107, 109-112, 115-119
G: Pins 120-124, 127-131
B: Pins 132-135, 138-143
OK
A
Check conduction between the resize IC (IC1005) and the color unevenness correction IC (IC1050).
NG
A
Confirm OSD input signals to resize IC (IC1005 pins 94-98).
OK
A
Check readout operation of the resize IC (IC1050).
POCLK: Pin 92 (PT-LC75U/E, U1X65: 75 MHz, PT-LC55U/E, U1S65: 44 MHz)
POHS: Pin 101
POVS: Pin 102
If it is abnormal, check the power supply or replace it.
NG
A
Confirm OSD IC (IC1009) clock, sync, reset and FPGA output (IC1007 pins 37-40) signals.
OK
A
Check circuit between the OSD IC (IC1009) and the FPGA (IC1007).
NG
Malfunction of FPGA (IC1007)
YES
A
Config check LED (D1036) illuminates red.
NO
A
Configuration error
Confirm circuit between FPGA (IC1007) and microcomputer (IC1010), and IC1010 pins 47 (TXD1), 46 (CF_CK), 87 (CF_DONE), 88 (CF_OE).
NG
A
Check power and peripheral circuits of the microcomputer (IC1010) or replace it.
OK
A
Replace the FPGA (IC1007). If not recoverable (an abnormal picture or no picture appears), replace the A-P.C.Board.

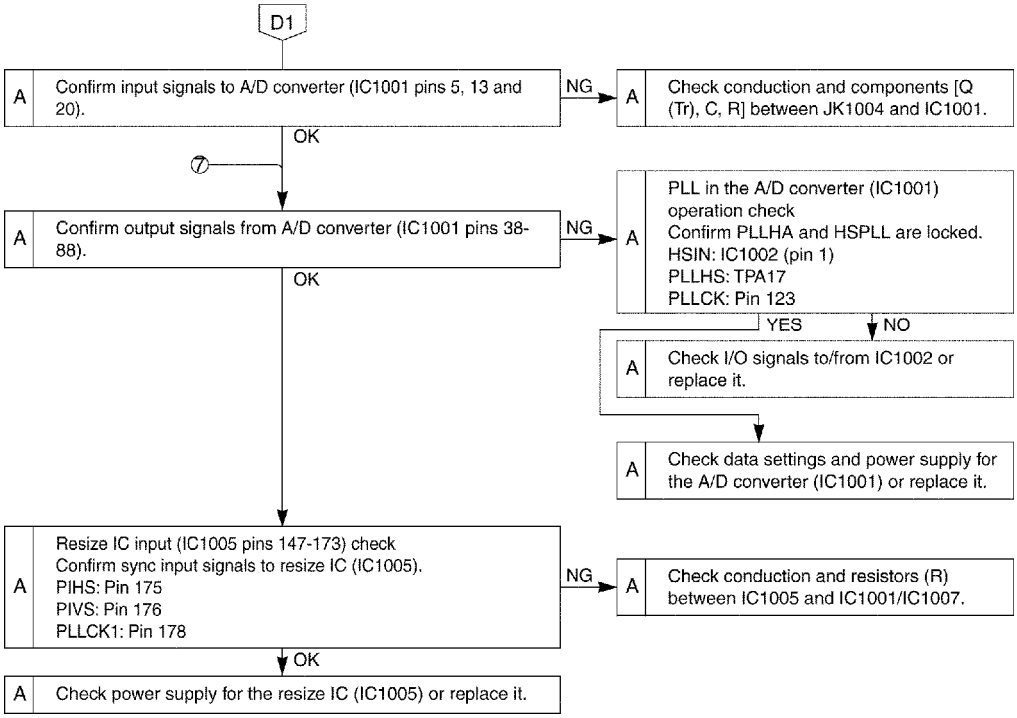

B1 (PT-LC75U/E, U1X65)
A Confirm an analog input signal to Y/C separator (IC1086 pin 84).
NG
A Confirm output and/or switching operation of IC1083.
OK
NG
OK
A Check conduction and components [Q (Tr), C, R] between IC1083 outputs and IC1086 inputs.
A Confirm an input signal to the switch (IC1083 pin 3).
④
NG
OK
A Check power supply of IC1083 or replace it.
A Check conduction and components (D, C, R) between JK1002 and IC1083.
A Confirm digital outputs from Y/C separator (IC1086 pins 14-21, 24-31).
NG
A Check crystal oscillator (X1001) for IC1086 or replace it.
OK
A Confirm input signals to I/P transformation (IC1088 pins 181-197).
NG
A Check circuit between IC1086 and IC1088.
OK
A Confirm outputs from I/P transformation (IC1088 pins 80-98).
NG
A Check power and peripheral circuits of IC1088, IC1089 and IC1090, or replace them.
OK
A Confirm input signals to resize IC (IC1005 pins 181-196).
Confirm sync signals to resize IC (IC1005):
YUVCLK: Pin 199
YUVHS: Pin 197 (TPA6)
YUVVS: Pin 198 (TPA7)
MCLK0: Pin 77
NG
A Check conduction and resistors (R) between IC1005 and IC1088/IC1006/ IC1007.
OK
A Check power supply of the resize IC (IC1005) or replace it.


B2 (PT-LC55U/E, U1S65)
A Confirm an analog input signal to video decoder (IC1033 pin 1).
NG
A Check conduction and components [Q (Tr), D, C, R] between JK1002 and IC1033.
OK
⑤
A Confirm analog output signals from video decoder (IC1033 pins 21-23).
NG
A Confirm output signals from com filter (IC1034 pins 27 and 25).
OK
NG
A Check the com filter (IC1034). If it is abnormal, check the power and peripheral circuits or replace it.
OK
A Confirm input signals to video decoder (IC1033 pins 5 and 7).
OK
NG
A Check conduction and components between the com filter (IC1034) and the video decoder (IC1033).
A Check power and peripheral circuits of the video decoder (IC1033) or replace it.
A Confirm input signals to video switch (IC1035 pins 2, 5 and 7).
NG
A Check conduction between the video decoder (IC1033) and the video switch (IC1035).
OK
A Confirm output signals from video switch (IC1035 pins 35, 30 and 27).
NG
A Confirm a control terminal of the video switch (IC1035 pin 19).
NG
OK
A Check power and peripheral circuits of the video switch (IC1035) or replace it.
OK
A Confirm YUV_VIDEO signal to FPGA (IC1007 pin 30).
OK
NG
A Check power and peripheral circuits of the FPGA (IC1007) or replace it.
A Check conduction between the FPGA (IC1007) and the video switch (IC1035).
A Confirm Y (pin 17), PB (pin 23), PR (pin 8) and H-sync (pin 43) input signals to A/D converter (IC1001).
NG
A Check conduction between the video switch (IC1035) and the A/D converter (IC1001). Check I/O signals to/from IC1028 or replace it.
⑥


⑥
A
Confirm output signals from A/D converter (IC1001).
R: Pins 113-120
G: Pins 90-97
B: Pins 70-77
NG
A
PLL in the A/D converter (IC1001) operation check
Confirm PLLHA and HSPLL are locked.
HSIN: Pin 43
PLLHS: TPA17
PLLCK: Pin 123
OK
NG
A
Check I/O signals to/from IC1002 or replace it.
A
Check data settings and power supply for the A/D converter (IC1001) or replace it.
OK
A
Resize IC input (IC1005 pins 147-173) check
Confirm sync input signals to resize IC (IC1005).
PLLCK1: Pin 178
PIHS: Pin 175
PIVS: Pin 176
MCLK0: Pin 77
NG
A
Check conduction and resistors (R) between IC1005 and IC1001/IC1006/IC1007.
OK
A
Check power supply for the resize IC (IC1005) or replace it.


C1
(PT-LC75U/E, U1X65)
A
Confirm input signals to Y/C separator (IC1086 pins 62 and 84).
OK
④
NG
A
Confirm output signals from the switch (IC1083) and video amplifier (IC1082).
NG
A
Check conduction and components (D, C, R) between JK1001 and IC1082/IC1083.
OK
A
Check conduction and components [Q (Tr), C, R] between IC1082/IC1083 and IC1086.


C2
(PT-LC55U/E, U1S65)
A
Confirm input signals to video decoder (IC1033 pins 43 and 44).
NG
A
Check conduction and components [Q (Tr), D, C, R] between JK1001 and IC1033.
OK
⑤


D1
A
Confirm input signals to A/D converter (IC1001 pins 5, 13 and 20).
NG
A
Check conduction and components [Q (Tr), C, R] between JK1004 and IC1001.
OK
⑦
A
Confirm output signals from A/D converter (IC1001 pins 38-88).
NG
A
PLL in the A/D converter (IC1001) operation check
Confirm PLLHA and HSPLL are locked.
HSIN: IC1002 (pin 1)
PLLHS: TPA17
PLLCK: Pin 123
OK
YES
NO
A
Check I/O signals to/from IC1002 or replace it.
A
Check data settings and power supply for the A/D converter (IC1001) or replace it.
A
Resize IC input (IC1005 pins 147-173) check
Confirm sync input signals to resize IC (IC1005).
PIHS: Pin 175
PIVS: Pin 176
PLLCK1: Pin 178
NG
A
Check conduction and resistors (R) between IC1005 and IC1001/IC1007.
OK
A
Check power supply for the resize IC (IC1005) or replace it.

D2 (PT-LC55U/E, U1S65)
Confirm that RGB2 is set in input mode.
NO
Set RGB2 SELECT into INPUT on OPTION1 menu.
YES
A
Confirm input signals to video switch (IC1035 pins 11, 13 and 16).
NG
A
Check components [Q (Tr), C, R] between JK1005 and IC1035.
OK
A
Confirm output signals from video switch (IC1035 pins 35, 30 and 27).
OK
⑦
NG
A
Confirm a control terminal of the video switch (IC1035 pin 19).
OK
A
Check power and peripheral circuits of the video switch (IC1035) or replace it.
NG
A
Confirm YUV_VIDEO signal from FPGA (IC1007 pin 30).
NG
A
Check FPGA (IC1007).
OK
A
Check conduction between IC1007 and IC1035.
No signal is outputted from RGB2.
Confirm that RGB2 is set in output mode.
NO
Set RGB2 SELECT into OUTPUT on OPTION1 menu.
YES
Confirm input/output signals to/from operational amplifiers (IC1022-IC1024 pin 3 / pin 1).
NG
Check each control terminal of the operational amplifiers (IC1022-IC1024 pin 5).
OK
Check conduction and components (C, R) between JK1005 and the operational amplifiers (IC1022-IC1024).
Remote control malfunction
Check the remote control unit.
NG
Replace the remote control unit.
OK
A
When the remote control unit is operated, confirm the remote control signal is inputted to the microcomputer (IC1010) pin 24.
NO
A R
Check the circuit around IC1071, IC1073, RM1001 and RM3001 (R-P.C.Board).
YES
Replace the A-P.C.Board.

9. Interconnection Block Diagram

9.1. Interconnection Block Diagram (1/2)

9.2. Interconnection Block Diagram (2/2)

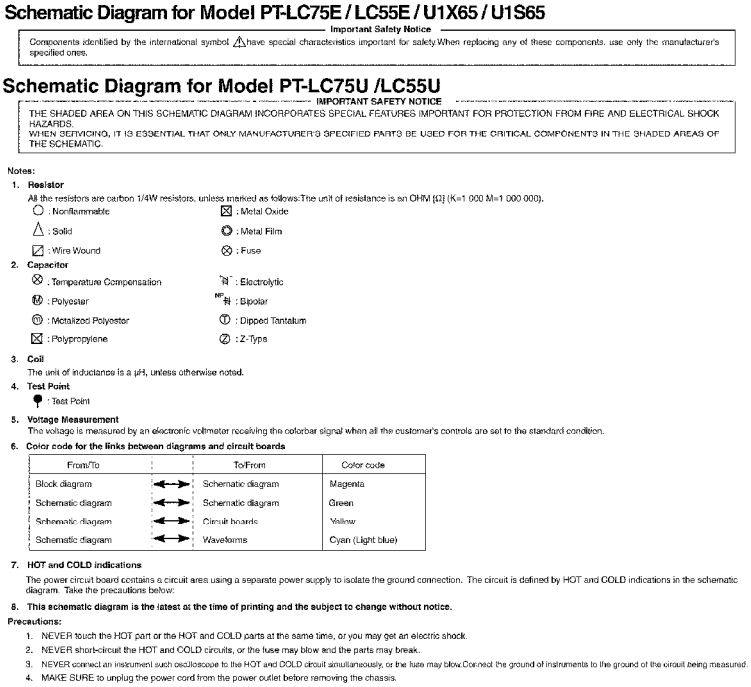
10. Block Diagram

10.1. Power Supply

10.2. Signal Processing (1/2)

10.3. Signal Processing (2/2)

11. Schematic Diagram



Schematic Diagram for Model PT-LC75E / LC55E / U1X65 / U1S65

Important Safety Notice

Components identified by the international symbol ⚠ have special characteristics important for safety.When replacing any of these components, use only the manufacturer's specified ones.

Schematic Diagram for Model PT-LC75U /LC55U

IMPORTANT SAFETY NOTICE

THE SHADED AREA ON THIS SCHEMATIC DIAGRAM INCORPORATES SPECIAL FEATURES IMPORTANT FOR PROTECTION FROM FIRE AND ELECTRICAL SHOCK HAZARDS.
WHEN SERVICING, IT IS ESSENTIAL THAT ONLY MANUFACTURER'S SPECIFIED PARTS BE USED FOR THE CRITICAL COMPONENTS IN THE SHADED AREAS OF THE SCHEMATIC.

Notes:

1. **Resistor**
   All the resistors are carbon 1/4W resistors, unless marked as follows:The unit of resistance is an OHM [Ω] (K=1 000 M=1 000 000).
   ○ : Nonflammable　⊠ : Metal Oxide
   △ : Solid　◎ : Metal Film
   ⊿ : Wire Wound　⊗ : Fuse
2. **Capacitor**
   ⊗ : Temperature Compensation　: Electrolytic
   Ⓟ : Polyester　: Bipolar
   Ⓜ : Metalized Polyester　Ⓣ : Dipped Tantalum
   ⊠ : Polypropylene　Ⓩ : Z-Type
3. **Coil**
   The unit of inductance is a μH, unless otherwise noted.
4. **Test Point**
   : Test Point
5. **Voltage Measurement**
   The voltage is measured by an electronic voltmeter receiving the colorbar signal when all the customer's controls are set to the standard condition.
6. **Color code for the links between diagrams and circuit boards**

From/To		To/From	Color code
Block diagram	⟷	Schematic diagram	Magenta
Schematic diagram	⟷	Schematic diagram	Green
Schematic diagram	⟷	Circuit boards	Yellow
Schematic diagram	⟷	Waveforms	Cyan (Light blue)

7. **HOT and COLD indications**
   The power circuit board contains a circuit area using a separate power supply to isolate the ground connection. The circuit is defined by HOT and COLD indications in the schematic diagram. Take the precautions below:
8. **This schematic diagram is the latest at the time of printing and the subject to change without notice.**

Precautions:

1. NEVER touch the HOT part or the HOT and COLD parts at the same time, or you may get an electric shock.
2. NEVER short-circuit the HOT and COLD circuits, or the fuse may blow and the parts may break.
3. NEVER connect an instrument such oscilloscope to the HOT and COLD circuit simultaneously, or the fuse may blow.Connect the ground of instruments to the ground of the circuit being measured.
4. MAKE SURE to unplug the power cord from the power outlet before removing the chassis.

11.1. A-P.C.Board (PT-LC75U/E, PT-U1X65) (1/5)

11.2. A-P.C.Board (PT-LC75U/E, PT-U1X65) (2/5)

11.3. A-P.C.Board (PT-LC75U/E, PT-U1X65) (3/5)

11.4. A-P.C.Board (PT-LC75U/E, PT-U1X65) (4/5)

11.5. A-P.C.Board (PT-LC75U/E, PT-U1X65) (5/5)

11.6. A-P.C.Board (PT-LC55U/E, PT-U1S65) (1/4)

11.7. A-P.C.Board (PT-LC55U/E, PT-U1S65) (2/4)

11.8. A-P.C.Board (PT-LC55U/E, PT-U1S65) (3/4)

11.9. A-P.C.Board (PT-LC55U/E, PT-U1S65) (4/4)

11.10. S-P.C.Board, R-P.C.Board

11.11. B-Module

12. Circuit Boards

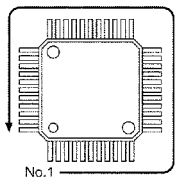
12.1. A-P.CBoard (PT-LC75U/E, PT-U1X65) (Foil Side) S-P.C.Board

12.2. A-P.CBoard (PT-LC75U/E, PT-U1X65) (Component Side) R-P.C.Board

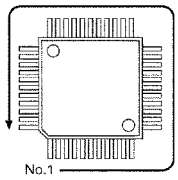
12.3. A-P.CBoard (PT-LC55U/E, PT-U1S65) (Foil Side)

12.4. A-P.CBoard (PT-LC55U/E, PT-U1S65) (Component Side)

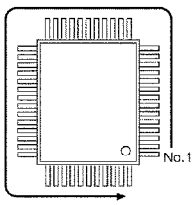
13. Terminal guide of ICs and transistors



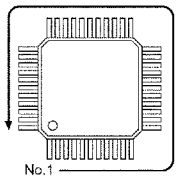
C1AB00001524	208 Pin
C1AB00001516	176 Pin
C1ZBZ0001965	144 Pin



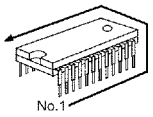
C2GBC0000135	112 Pin



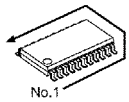
C0FBAD000067	128 Pin



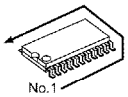
C1AB00001494	208 Pin
MN8271AT	208 Pin
C1AB00001523	48 Pin
C3HBMJ000004	100 Pin
C1AB00001522	48 Pin



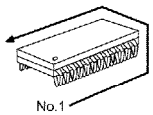
M52036SP	20 Pin



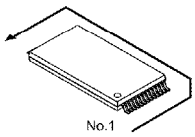
C3ABPJ000008	86 Pin
C2BBCB000013	18 Pin
MC14053BF	16 Pin
M62398FP	24 Pin
C0ZBZ0000624	28 Pin
TVSA0500	50 Pin



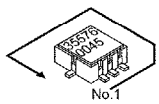
C1BB00000646	20 Pin



C3BBFC000127	28 Pin



TVRJ428	48 Pin



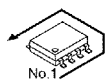
C1GB00000041	8 Pin

C3EBJC000037	8 Pin
C1AB00001226	8 Pin
C3EBCC000045	8 Pin

C0DBEZE00002	5 Pin
PQ07VZ012ZP	5 Pin
C0CBCBF00001	5 Pin

AN78L12M	3 Pin
AN78L05M	3 Pin

C0CBAAD00008	3 Pin



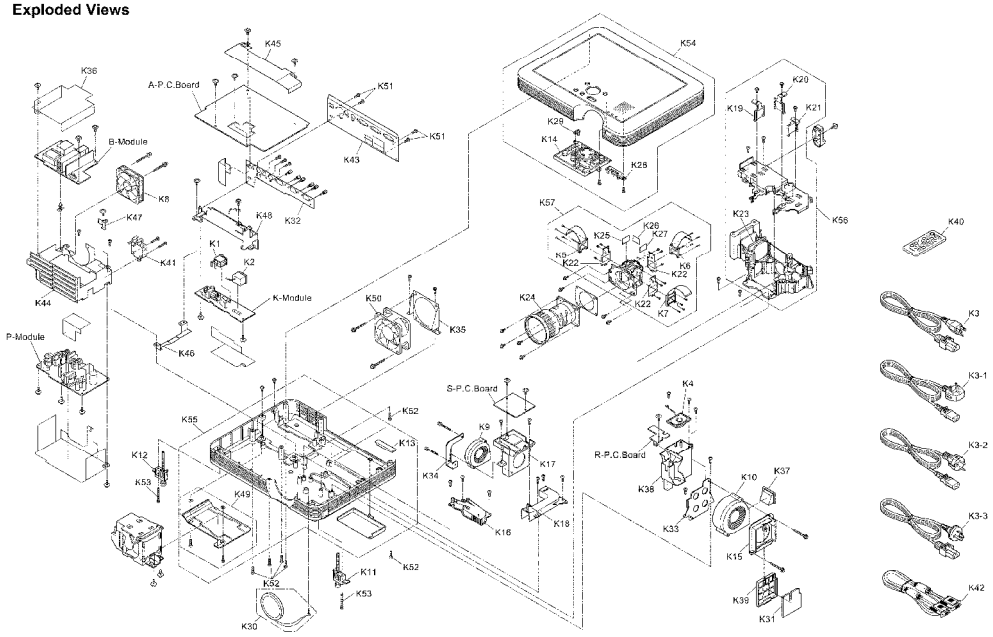
M51957BFP	8 Pin
C9ZB00000326	8 Pin
TC74LCX574TL	20 Pin
UPD4721GS	20 Pin
C0JBAZ000855	20 Pin

C0JBAZ001488	8 Pin

2SB709A	
2SD601AR	
2SB710A	

14. Exploded Views

Exploded Views



15. Replacement Parts List

Important Safety Notice

Components identified by the International symbol ⚠ have special characteristics important for safety.
When replacing any of these components, use only the manufacturer's specified parts.

Abbreviation of Part Name and Description

1. Resistor

Example:

ERD25TJ104 C 100KOHM, J, 1/4W

TYPE ALLOWANCE

TYPE	ALLOWANCE
C : Carbon	F : ± 1 %
F : Fuse	G : ± 2 %
M : Metal Oxide	J : ± 5 %
Metal Film	K : ±10%
S : Solid	M : ±20%
W : Wire Wound	

2. Capacitor

Example:

ECKF1H103ZF C 0.01PF, Z, 50V

TYPE ALLOWANCE

TYPE	ALLOWANCE
C : Ceramic	C : ±0.25 pF
E : Electrolytic	D : ±0.5 pF
P : Polyester	F : ± 1 pF
PP : Polypropylene	J : ± 5 %
S : Polystyrol	K : ±10 %
T : Tantalum	L : ±15 %
	M : ±20 %
	P : +100 %, -0 %
	Z : +80 %, -20 %

Notes:

For G** of Ref. No., not indicate illustration of it part on "Exploded Views".
Printed circuit board assembly with mark (RTL) is no longer available after production discontinuation of the complete set.

15.1. PT-LC75U/E, PT-U1X65

Ref. No.	Part No.	Part Name & Description	Remarks
[MECHANICAL PARTS]			
K1	AJ7241B	POWER SWIYCH	⚠
G1	CR2025/1B	BATTERY	
G2	D4CDH5030001	THERMISTER	⚠
K2	K2AH3B000016	AC INLET	⚠
K3	K2CG3FZ00008	POWER CORD	⚠PT-LC75U
K3-1	K2CT3FZ00001	POWER CORD	⚠PT-LC75E
K3-2	K2CM3FZ00001	POWER CORD	⚠PT-LC75E
K3-3	K2CZ3FR00001	POWER CORD	⚠PT-U1X65
K4	L0AA04C00002	SPEAKER	
K5	L5BDAXQ00083	LIQUID CRYSTAL DISPLAY(R)	
K6	L5BDAXQ00084	LIQUID CRYSTAL DISPLAY(G)	
K7	L5BDAXQ00085	LIQUID CRYSTAL DISPLAY(B)	
K8	L6FAKDEH0001	FAN	⚠
K9	L6FCJC9H0002	FAN	⚠
K10	L6FCLFCH0004	FAN	⚠
K11	TBLB3068	ADJUST LEG (RIGHT)	
K12	TBLB3069	ADJUST LEG (LEFT)	
K13	TBLG3042	RUBBER LEG (REAR)	
G3	TBME500	MODEL NAME PLATE	PT-LC75U
	TBME504	MODEL NAME PLATE	PT-LC75E
	TBME508	MODEL NAME PLATE	PT-U1X65
K14	TBXA34101	CONTROL BUTTON	
K15	TEEC5067	DUCT	
K16	TEEC5068	DUCT	
K17	TEEC5069	DUCT	
K18	TEEC5070	DUCT	
K19	TENC0130	POLARIZING PLATE /IN (R)	
K20	TENC0131	POLARIZING PLATE /IN (G)	
K21	TENC0132	POLARIZING PLATE /IN (B)	
K22	TENC5170	LCD INSTALL METAL	
G5	THEC052N	D-SUB SCREW	
G6	THEC053U	SCREW	
G7	TKFE06601	REMOTE CONTROLLER CASE	
K23	TKGF0058	PBS ARRAY	
K24	TKGF0059	LENS	
K25	TKGP5102	POLARIZING PLATE / OUT(R)	
K26	TKGP5103	POLARIZING PLATE / OUT(G)	
K27	TKGP5104	POLARIZING PLATE / OUT(B)	
K28	TKKC5131	LED COVER 1	
K29	TKKC5132	LED COVER 2	
K30	TKKL5208	LENS COVER	
K31	TKNE045	FILTER	
K32	TKZF5019	TERMINAL METAL	
K33	TKZJ5032	FAN INSTALL METAL	
K34	TKZJ5033	FAN INSTALL METAL	
K35	TKZJ5034	FAN METAL	
G8	TMKK103	SHEET	
G9	TMKX100	WASHER	

Ref. No.	Part No.	Part Name & Description	Remarks
G10	TMKX332	SHEET	
G11	TMKX381	SHEET	
K36	TMKX349	SHEET	
G12	TMKX359	SHEET	
K37	TMMA034	FAN ADAPTER	
G13	TMME159	SPACER	
G14	TMME196	SPACER	
G15	TMXC017	TEMP FUSE METAL	
K38	TMZK5011	SPEAKER BOX	
K39	TMZX5021	FILTER COVER	
K40	TNQE239	REMOTE CONTROLLER	
G16	TPCB17103	CARTON	PT-LC75U
	TPCB17105	CARTON	PT-LC75E
	TPCB17107	CARTON	PT-U1X65
G17	TPDF0812	PAD	
G18	TPDF0813	CARRYNG CASE PAD	
G19	TPDF0818	ACCESSORY CARTON	
G20	TPEH124	SET COVER	
G21	TPEP006-1	CARRYING CASE	PT-LC75U
	TPEP006	CARRYING CASE	PT-LC75E, PT-U1X65
G22	TQF86202	LABEL	
G23	TQZC204	FAN BAG	⚠PT-LC75U
G24	TQBJ0093	INSTRUCTION BOOK	⚠PT-LC75E
	TQBJ0094	INSTRUCTION BOOK	⚠PT-U1X65
K41	TSEX8005	SWITCH	⚠K0ADBF000007
K42	TSXF163	CABLE	K1HA30DA0003
K43	TTFA0110	TERMINAL COVER ASSY	
K44	TUCC5760	POWER UNIT BOX	
K45	TUCJ5416	HEAT SINK	
K46	TUCX5099	METAL	
K47	TUCX5100	METAL	
K48	TUWC035	INSTALL METAL (K-PCB)	
K49	TXFKK01VJJ8	LAMP COVER	
G25	TXJ/K1VJJ8A	TEMPERATURE FUSE	⚠
K50	UDQF7TB01C	FAN	⚠
K51	XSB3+8FN	SCREW	
K52	XSN4+10	SCREW	
G26	XSN4+15	SCREW	
G27	XSS2+6FZ	SCREW	
G28	XTBT969Z	SCREW	
G29	XTN3+6G	SCREW	
G30	XTV3+10J	SCREW	
G31	XYN2+J6	SCREW	
G32	XYN3+F10	SCREW	
G33	XYN3+F25	SCREW	
G34	XYN3+F6	SCREW	
G35	XYN3+F8	SCREW	
G36	XYN3+J35	SCREW	
G37	XYN3+J8	SCREW	
G38	XYN4+E8	SCREW	
G39	XYN4+J22	SCREW	
K53	XYN4+J30	SCREW	

Ref. No.	Part No.	Part Name & Description	Remarks
G40	XYN4+J32FZ	SCREW	
K54	TXFTT99PLPZ	UPPER COVER ASSY	
K55	TXFKF99PLPZ	BOTTOM COVER ASSY	PT-LC75U
	TXFKF99PLQZ	BOTTOM COVER ASSY	PT-LC75E
	TXFKF99PLRZ	BOTTOM COVER ASSY	PT-U1X65
K56	TXFEC99VJJ8	ANALYSIS BLOCK	
K57	TXFEN99VJJ8	OPTICAL BASE BLOCK	
[INTEGRATED CIRCUIT]			
IC101	C0DBZZZ00046	I.C	
IC151	MIP289	I.C	
IC1001	C0FBAD000067	I.C	
IC1002	TC7SH08FTL	I.C	C0JBAA000101
IC1003	M52036SP	I.C	C1AA00000392
IC1004	MC14053BF	I.C	C0JBAR000023
IC1005	C1AB00001524	I.C	
IC1006	C3ABPJ000008	I.C	
IC1007	C1ZBZ0001965	I.C	
IC1009	C0ZBZ0000624	I.C	
IC1010	C2GBC0000135	I.C	
IC1011	TVRJ608	I.C	
IC1012	TC74LCX574TL	I.C	C0JBAF000315
IC1013	TC7SH32FTL	I.C	C0JBAE000146
IC1014	C0JBAZ000855	I.C	
IC1016	M51957BFP	I.C	C0EBB0000024
IC1017	C3EBJC000037	I.C	
IC1018	C1GB00000041	I.C	
IC1020	C3EBCC000045	I.C	
IC1021	C3EBCC000045	I.C	
IC1022	C0ABGB000016	I.C	
IC1023	C0ABGB000016	I.C	
IC1024	C0ABGB000016	I.C	
IC1025	AN78L12M	I.C	
IC1026	C1BB00000646	I.C	
IC1027	C3BBFC000127	I.C	
IC1029	C0DBEZE00002	I.C	
IC1030	C0DBEZE00002	I.C	
IC1031	C0DBEZE00002	I.C	
IC1032	C0JBAZ001488	I.C	
IC1033	C0JBAZ001488	I.C	
IC1042	C0CBABD00015	I.C	
IC1043	PQ07VZ012ZP	I.C	C0DBEZG00004
IC1044	C0CBAAD00008	I.C	
IC1050	C1AB00001516	I.C	
IC1051	C1AB00001523	I.C	
IC1052	C1AB00001523	I.C	
IC1053	C1AB00001523	I.C	
IC1054	C1AB00001523	I.C	
IC1055	C1AB00001523	I.C	
IC1056	C1AB00001523	I.C	
IC1057	C1AB00001522	I.C	
IC1058	C1AB00001522	I.C	
IC1060	M62398FP	I.C	C0FBBD000087

Ref. No.	Part No.	Part Name & Description	Remarks
IC1061	AN78L12M	I.C	
IC1062	AN78L05M	I.C	
IC1070	UPD4721GS	I.C	C0JBAZ000237
IC1071	C0JBAZ000855	I.C	
IC1072	AN78L05M	I.C	
IC1073	C2BBCB000013	I.C	
IC1075	C9ZB00000326	I.C	
IC1081	C0CBADC00032	I.C	
IC1082	C1AB00001248	I.C	
IC1083	C1AB00001226	I.C	
IC1084	C0CBCBF00001	I.C	
IC1085	PQ1R33	I.C	C0CBABC00037
IC1086	C1AB00001494	I.C	
IC1087	TVSA0500	I.C	C3ABMG000074
IC1088	MN8271AT	I.C	
IC1089	TVRJ428	I.C	
IC1090	C3HBMJ000004	I.C	
IC9602	C0ZAZ0000077	I.C	
IC9603	C0ZAZ0000077	I.C	
IC9701	C0DBALC00005	I.C	
IC9707	AN78L09M	I.C	
IC9708	AN78L05M	I.C	
[TRANSISTORS]			
Q101	2SK2837	TRANSISTOR	B1DEHQ000001
Q131	B1DEGQ000017	TRANSISTOR	
Q251	UN2211	TRANSISTOR	UNR2211
Q1001	2SD601AR	TRANSISTOR	2SD0601AR
Q1002	2SD601AR	TRANSISTOR	2SD0601AR
Q1003	2SK198R	TRANSISTOR	2SK01980R
Q1004	2SD601AR	TRANSISTOR	2SD0601AR
Q1005	2SB709A	TRANSISTOR	2SB0709A
Q1006	2SD601AR	TRANSISTOR	2SD0601AR
Q1007	2SD601AR	TRANSISTOR	2SD0601AR
Q1008	2SD601AR	TRANSISTOR	2SD0601AR
Q1009	2SB709A	TRANSISTOR	2SB0709A
Q1010	2SB709A	TRANSISTOR	2SB0709A
Q1011	2SD601AR	TRANSISTOR	2SD0601AR
Q1012	2SC3545	TRANSISTOR	
Q1013	2SC3545	TRANSISTOR	
Q1014	2SC3545	TRANSISTOR	
Q1015	2SD601AR	TRANSISTOR	2SD0601AR
Q1019	2SC3545	TRANSISTOR	
Q1020	2SD601AR	TRANSISTOR	2SD0601AR
Q1021	2SD601AR	TRANSISTOR	2SD0601AR
Q1022	2SC3545	TRANSISTOR	
Q1023	2SC3545	TRANSISTOR	
Q1024	2SD601AR	TRANSISTOR	2SD0601AR
Q1025	2SD601AR	TRANSISTOR	2SD0601AR
Q1026	2SB709A	TRANSISTOR	2SB0709A
Q1027	2SD601AR	TRANSISTOR	2SD0601AR
Q1028	2SB709A	TRANSISTOR	2SB0709A
Q1029	2SD601AR	TRANSISTOR	2SD0601AR

Ref. No.	Part No.	Part Name & Description	Remarks
Q1030	2SD601AR	TRANSISTOR	2SD0601AR
Q1031	2SD601AR	TRANSISTOR	2SD0601AR
Q1032	2SB709A	TRANSISTOR	2SB0709A
Q1033	2SD601AR	TRANSISTOR	2SD0601AR
Q1034	2SB709A	TRANSISTOR	2SB0709A
Q1035	2SD601AR	TRANSISTOR	2SD0601AR
Q1036	2SB709A	TRANSISTOR	2SB0709A
Q1037	2SD601AR	TRANSISTOR	2SD0601AR
Q1038	2SD601AR	TRANSISTOR	2SD0601AR
Q1039	2SK620	FET	2SK0620
Q1040	2SK620	FET	2SK0620
Q1041	2SD601AR	TRANSISTOR	2SD0601AR
Q1042	2SD601AR	TRANSISTOR	2SD0601AR
Q1043	2SD601AR	TRANSISTOR	2SD0601AR
Q1049	2SD601AR	TRANSISTOR	2SD0601AR
Q1052	2SB709A	TRANSISTOR	2SB0709A
Q1053	2SB709A	TRANSISTOR	2SB0709A
Q1054	2SB709A	TRANSISTOR	2SB0709A
Q1055	2SD601AR	TRANSISTOR	2SD0601AR
Q1056	2SD601AR	TRANSISTOR	2SD0601AR
Q1057	2SD601AR	TRANSISTOR	2SD0601AR
Q1058	2SD601AR	TRANSISTOR	2SD0601AR
Q1059	2SB709A	TRANSISTOR	2SB0709A
Q1060	2SD601AR	TRANSISTOR	2SD0601AR
Q1061	2SB709A	TRANSISTOR	2SB0709A
Q1062	2SD601AR	TRANSISTOR	2SD0601AR
Q1063	2SB709A	TRANSISTOR	2SB0709A
Q2003	2SB709A	TRANSISTOR	2SB0709A
Q2004	2SB709A	TRANSISTOR	2SB0709A
Q3002	2SD601AR	TRANSISTOR	2SD0601AR
Q3003	2SD601AR	TRANSISTOR	2SD0601AR
Q3004	2SD601AR	TRANSISTOR	2SD0601AR
Q9603	B1DEGQ000017	TRANSISTOR	
Q9604	2SB710A	TRANSISTOR	2SB0710A
Q9605	2SB710A	TRANSISTOR	2SB0710A
Q9606	B1JABQ000001	TRANSISTOR	
Q9607	B1JABQ000001	TRANSISTOR	
Q9608	2SB710A	TRANSISTOR	2SB0710A
Q9609	2SB710A	TRANSISTOR	2SB0710A
Q9610	B1JABQ000001	TRANSISTOR	
Q9611	B1JABQ000001	TRANSISTOR	
Q9612	B1DEGQ000017	TRANSISTOR	
[DIODES]			
D101	B0FBBR000011	DIODE	⚠
D151	S1VBA60	DIODE	⚠
D1001	MA3056M	ZENER DIODE	MAZ30560M
D1002	MA3056M	ZENER DIODE	MAZ30560M
D1003	MA3056M	ZENER DIODE	MAZ30560M
D1004	MA3056M	ZENER DIODE	MAZ30560M
D1005	MA3033H	DIODE	
D1006	MA3033H	DIODE	

Ref. No.	Part No.	Part Name & Description	Remarks
D1007	MA3033H	DIODE	
D1008	MA3033H	DIODE	
D1009	MA3150M	DIODE	MAZ31500M
D1010	MA3150M	DIODE	MAZ31500M
D1011	MA3150M	DIODE	MAZ31500M
D1012	MA3150M	DIODE	MAZ31500M
D1013	MA3033H	DIODE	
D1014	MA3033H	DIODE	
D1015	MA157A	DIODE	MA3X157A
D1016	MA157A	DIODE	MA3X157A
D1017	MA157A	DIODE	MA3X157A
D1018	MA3056M	ZENER DIODE	MAZ30560M
D1019	MA3056M	ZENER DIODE	MAZ30560M
D1020	MA3056M	ZENER DIODE	MAZ30560M
D1021	MA3056M	ZENER DIODE	MAZ30560M
D1022	MA157A	DIODE	MA3X157A
D1023	MA157A	DIODE	MA3X157A
D1024	MA157A	DIODE	MA3X157A
D1025	MA157A	DIODE	MA3X157A
D1026	MA157A	DIODE	MA3X157A
D1027	MA157A	DIODE	MA3X157A
D1028	MA157A	DIODE	MA3X157A
D1029	MA157A	DIODE	MA3X157A
D1030	MA157A	DIODE	MA3X157A
D1032	MA723	DIODE	
D1033	MA728	DIODE	
D1035	LNJ208R8ARA	LED	
D1036	LNJ208R8ARA	LED	
D1037	LNJ208R8ARA	LED	
D1065	D4CE45030001	THERMISTOR	
D2003	LNJ107W5ARA1	LED	
D3000	MA157A	DIODE	MA3X157A
D3001	LNJ208R8ARA	LED	
D3002	LNJ208R8ARA	LED	
D3003	LNJ308G8TRA	LED	
D9612	MA158	DIODE	MA3X158
D9613	MA720	DIODE	MA3X720
D9615	MA158	DIODE	MA3X158
D9616	MA720	DIODE	MA3X720
D9618	MA158	DIODE	MA3X158
D9619	MA720	DIODE	MA3X720
D9621	MA158	DIODE	MA3X158
D9622	MA720	DIODE	MA3X720
[COILS]			
L101	G0BYYYH00006	COIL	⚠
L1001	EXCML16A270	COIL	
L1002	ELJFA470JB	COIL	
L1003	EXCML16A270	COIL	
L1004	ELJFA6R8JB	CHIP COIL	
L1005	ELJFA6R8JB	CHIP COIL	
L1006	ELJFA6R8JB	CHIP COIL	
L1007	EXCML16A270	COIL	

[redacted]	[redacted]	[redacted]	

Ref. No.	Part No.	Part Name & Description	Remarks
L1008	EXCML16A270	COIL	
L1009	ELJFA100KF	COIL	
L1010	ELJFA100KF	COIL	
L1011	ELJFA6R8JB	CHIP COIL	
L1012	EXCML16A270	COIL	
L1013	EXCML16A270	COIL	
L1015	EXCML16A270	COIL	
L1016	EXCML16A270	COIL	
L1018	EXCML16A270	COIL	
L1019	EXCML16A270	COIL	
L1020	EXCML16A270	COIL	
L1023	EXCML16A270	COIL	
L1024	ELJFA470JB	COIL	
L1025	EXCML16A270	COIL	
L1027	ELJFA6R8JB	CHIP COIL	
L1028	ELJFA470JB	COIL	
L1029	EXCML16A270	COIL	
L1030	EXCML16A270	COIL	
L1031	EXCML16A270	COIL	
L1032	EXCML16A270	COIL	
L1033	EXCML16A270	COIL	
L1034	EXCML16A270	COIL	
L1035	EXCML16A270	COIL	
L1036	EXCML16A270	COIL	
L1042	EXCML16A270	COIL	
L1046	EXCML16A270	COIL	
L1047	EXCML16A270	COIL	
L1048	EXCML16A270	COIL	
L1049	EXCML16A270	COIL	
L1050	EXCML16A270	COIL	
L1051	EXCML16A270	COIL	
L1052	EXCML16A270	COIL	
L1053	EXCML16A270	COIL	
L1054	EXCML16A270	COIL	
L1055	EXCML16A270	COIL	
L1056	EXCML16A270	COIL	
L1057	EXCML16A270	COIL	
L1058	EXCML16A270	COIL	
[RESISTORS]			
R134	ERX2SJ3R3	M 3.3 OHM, 2W	
R151	ERDS1TJ100	C 10 OHM,J,1/2W	
R1001	ERJ3GEYJ223	M 22K OHM,J,1/16W	
R1002	ERJ3GEYJ223	M 22K OHM,J,1/16W	
R1003	ERJ3GEYJ183	M 18K OHM,J,1/16W	
R1004	ERJ3GEYJ100	M 10 OHM,J,1/16W	
R1014	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1017	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1018	ERJ3GEYJ122	M 1.2KOHM,J,1/16W	
R1020	ERJ3GEYJ682	M 6.8KOHM,J,1/16W	
R1021	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1022	ERJ1TYJ470	RESISTOR	
R1023	ERJ1TYJ470	RESISTOR	

Ref. No.	Part No.	Part Name & Description	Remarks
R1024	ERJ1TYJ470	RESISTOR	
R1025	ERJ1TYJ470	RESISTOR	
R1026	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1027	ERJ3GEYJ105	M 1M OHM,J,1/16W	
R1028	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	
R1029	ERJ6ENF75R0	M 75 OHM, 1/10W	
R1030	ERJ6ENF75R0	M 75 OHM, 1/10W	
R1031	ERJ6ENF75R0	M 75 OHM, 1/10W	
R1032	ERJ3GEYJ221	M 220 OHM,J,1/16W	
R1033	ERJ6ENF47R0	M 47 OHM, 1/10W	
R1034	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1035	ERJ6ENF47R0	M 47 OHM, 1/10W	
R1036	ERJ3GEYJ221	M 220 OHM,J,1/16W	
R1037	ERJ3GEYJ152	M 1.5KOHM,J,1/16W	
R1038	ERJ3GEYJ153	M 15K OHM,J,1/16W	
R1039	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1040	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1041	ERJ6ENF47R0	M 47 OHM, 1/10W	
R1042	ERJ6ENF1500	M 150 OHM, 1/10W	
R1043	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1044	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1045	EXB38V220J	RESISTOR ARRAY	
R1046	EXB38V220J	RESISTOR ARRAY	
R1047	EXB38V220J	RESISTOR ARRAY	
R1048	EXB38V220J	RESISTOR ARRAY	
R1050	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1051	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1052	EXB38V220J	RESISTOR ARRAY	
R1053	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1054	ERJ3GEYJ391	M 390 OHM,J,1/16W	D0GB391JA002
R1055	ERJ3GEYJ301	M 300 OHM,J,1/16W	
R1056	ERJ3GEYJ151	M 150 OHM,J,1/16W	
R1060	ERJ3GEYJ391	M 390 OHM,J,1/16W	D0GB391JA002
R1061	ERJ3GEYJ272	M 2.7KOHMJ,J1/16W	
R1062	ERJ3GEYJ301	M 300 OHM,J,1/16W	
R1063	ERJ3GEYJ272	M 2.7KOHMJ,J1/16W	
R1064	ERJ3GEYJ823	M 82KOHM,J,1/16W	
R1065	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1066	ERJ3GEYJ471	M 470 OHM,J,1/16W	
R1067	ERJ3GEYJ471	M 470 OHM,J,1/16W	
R1068	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1069	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1070	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1071	ERJ3GEYJ471	M 470 OHM,J,1/16W	
R1072	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1073	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1074	ERJ3GEYJ561	M 560 OHM,J,1/16W	
R1075	ERJ3GEYJ221	M 220 OHM,J,1/16W	
R1076	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1077	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1078	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1079	ERJ6GEYJ331	M 330 OHM,J,1/10W	
R1080	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1081	ERJ3GEYJ103	M 10K OHM,J,1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1082	ERJ3GEYJ333	M 33K OHM,J,1/16W	
R1083	ERJ6GEYJ220	M 22 OHM,J,1/10W	
R1084	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1085	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1086	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1087	ERJ3GEYJ333	M 33K OHM,J,1/16W	
R1088	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1089	ERJ6GEYJ220	M 22 OHM,J,1/10W	
R1090	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1091	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1093	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1094	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1095	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1101	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1102	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1103	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1104	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1105	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1106	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1107	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1108	ERJ6ENF75R0	M 75 OHM, 1/10W	
R1109	ERJ6ENF75R0	M 75 OHM, 1/10W	
R1110	ERJ6ENF75R0	M 75 OHM, 1/10W	
R1111	ERJ6ENF75R0	M 75 OHM, 1/10W	
R1112	ERJ6ENF75R0	M 75 OHM, 1/10W	
R1113	ERJ6ENF75R0	M 75 OHM, 1/10W	
R1114	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1115	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1116	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1117	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1118	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1119	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1120	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1122	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	
R1123	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	
R1124	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	
R1125	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1126	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1127	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1128	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1129	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1130	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R1131	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R1132	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R1133	ERJ3GEYJ274	M 270 OHM,J,1/16W	
R1134	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1135	ERJ6ENF75R0	M 75 OHM, 1/10W	
R1136	ERJ6ENF75R0	M 75 OHM, 1/10W	
R1137	ERJ6ENF75R0	M 75 OHM, 1/10W	
R1138	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R1139	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1140	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1141	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1142	ERJ3GEYJ103	M 10K OHM,J,1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1145	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1146	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1147	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1148	ERJ3GEYJ682	M 6.8KOHM,J,1/16W	
R1149	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1150	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1151	ERJ3GEYJ682	M 6.8KOHM,J,1/16W	
R1152	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1153	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1154	ERJ3GEYJ682	M 6.8KOHM,J,1/16W	
R1155	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1156	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1157	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1158	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1159	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1160	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1161	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1162	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1163	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1164	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1165	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1166	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1167	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1168	ERJ3GEYJ180	M 18 OHM,J,1/16W	
R1172	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1173	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1174	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1175	ERJ3GEYJ682	M 6.8KOHM,J,1/16W	
R1176	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1177	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1181	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1182	ERJ3GEYJ682	M 6.8KOHM,J,1/16W	
R1183	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1184	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1185	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1186	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1187	ERJ3GEYJ180	M 18 OHM,J,1/16W	
R1188	ERJ6ENF2001	M 2KOHM, 1/10W	
R1189	ERJ3GEYJ180	M 18 OHM,J,1/16W	
R1190	ERJ3GEYJ682	M 6.8KOHM,J,1/16W	
R1191	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1192	ERJ3GEYJ180	M 18 OHM,J,1/16W	
R1193	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	
R1194	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1195	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1196	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1197	ERJ3GEYJ180	M 18 OHM,J,1/16W	
R1198	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	
R1199	ERJ6ENF1000	M 100 OHM, 1/10W	
R1200	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1201	ERJ3GEYJ681	M 680 OHM,J,1/16W	
R1202	ERJ3GEYJ180	M 18 OHM,J,1/16W	
R1203	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1204	ERJ6ENF2001	M 2KOHM, 1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1205	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1206	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1207	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1208	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1210	ERJ6GEYJ3R3	M3.3OHM,J, 1/10W	
R1211	ERJ6GEYJ3R3	M3.3OHM,J, 1/10W	
R1212	ERJ6GEYJ3R3	M3.3OHM,J, 1/10W	
R1213	ERJ6GEYJ3R3	M3.3OHM,J, 1/10W	
R1214	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1215	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1216	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	
R1217	ERJ6ENF1000	M 100 OHM, 1/10W	
R1218	ERJ3GEYJ333	M 33K OHM,J,1/16W	
R1220	ERJ3GEYJ333	M 33K OHM,J,1/16W	
R1221	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1222	ERJ3GEYJ681	M 680 OHM,J,1/16W	
R1223	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1224	ERJ6ENF2001	M 2KOHM, 1/10W	
R1225	ERJ3GEYJ333	M 33K OHM,J,1/16W	
R1226	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1227	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1228	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1229	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1230	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1231	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1232	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	
R1233	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1234	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1235	ERJ6ENF1000	M 100 OHM, 1/10W	
R1236	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1237	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1238	ERJ6GEYJ3R3	M3.3OHM,J, 1/10W	
R1239	ERJ6GEYJ3R3	M3.3OHM,J, 1/10W	
R1240	ERJ6GEYJ3R3	M3.3OHM,J, 1/10W	
R1241	ERJ6GEYJ3R3	M3.3OHM,J, 1/10W	
R1242	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1243	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1244	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1245	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1246	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1247	ERJ3GEYJ333	M 33K OHM,J,1/16W	
R1248	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1249	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1250	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1251	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1252	ERJ3GEYJ152	M 1.5KOHM,J,1/16W	
R1253	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1254	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1255	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1256	ERJ3GEYJ151	M 150 OHM,J,1/16W	
R1257	ERJ3GEYJ151	M 150 OHM,J,1/16W	
R1258	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1259	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1261	ERJ3GEYJ391	M 390 OHM,J,1/16W	D0GB391JA002

Ref. No.	Part No.	Part Name & Description	Remarks
R1262	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1263	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1264	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1265	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1267	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1268	ERJ3GEYJ680	M 68 OHM,J,1/16W	
R1269	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1270	ERJ3GEYJ104	M 100KOHM,J,1/16W	
R1271	EXB38V560J	RESISTOR ARRAY	
R1272	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	
R1273	ERJ6ENF3301	M 3.3KOHM, 1/10W	
R1274	EXB38V560J	RESISTOR ARRAY	
R1275	ERJ3GEYJ183	M 18K OHM,J,1/16W	
R1276	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1277	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1278	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1279	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1280	ERJ3GEYJ183	M 18K OHM,J,1/16W	
R1281	ERJ3GEYJ182	M 1.8KOHM,J,1/16W	
R1282	ERJ6ENF2702	M 27KOHM, 1/10W	
R1283	ERJ3GEYJ182	M 1.8KOHM,J,1/16W	
R1284	ERJ3GEYJ272	M 2.7KOHMJ,J1/16W	
R1285	ERJ3GEYJ182	M 1.8KOHM,J,1/16W	
R1288	EXB38V560J	RESISTOR ARRAY	
R1289	EXB38V560J	RESISTOR ARRAY	
R1290	EXB38V560J	RESISTOR ARRAY	
R1291	EXB38V560J	RESISTOR ARRAY	
R1292	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1293	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1294	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1295	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1296	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1297	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1303	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1304	EXB38V220J	RESISTOR ARRAY	
R1305	EXB38V220J	RESISTOR ARRAY	
R1306	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1308	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1309	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1330	EXB38V220J	RESISTOR ARRAY	
R1331	ERJ6GEYJ331	M 330 OHM,J,1/10W	
R1332	ERJ6ENF1001	M 1KOHM, 1/10W	
R1333	ERJ6ENF1001	M 1KOHM, 1/10W	
R1335	EXB38V560J	RESISTOR ARRAY	
R1336	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1337	EXB38V560J	RESISTOR ARRAY	
R1338	EXB38V560J	RESISTOR ARRAY	
R1339	EXB38V560J	RESISTOR ARRAY	
R1340	EXB38V560J	RESISTOR ARRAY	
R1341	EXB38V560J	RESISTOR ARRAY	
R1342	EXB38V560J	RESISTOR ARRAY	
R1345	EXB38V560J	RESISTOR ARRAY	
R1346	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1347	ERJ3GEYJ105	M 1M OHM,J,1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1353	ERJ6GEYJ331	M 330 OHM,J,1/10W	
R1354	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1356	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1359	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1360	ERJ3GEYJ105	M 1M OHM,J,1/16W	
R1361	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1362	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1366	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1369	ERJ6ENF1243	M 124KOHM, 1/10W	
R1373	EXB38V220J	RESISTOR ARRAY	
R1374	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1375	EXB38V220J	RESISTOR ARRAY	
R1382	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1383	ERJ3GEYJ822	M 8.2KOHM,J,1/16W	
R1385	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1386	ERJ3GEYJ124	M 120KOHM,J,1/16W	
R1387	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1388	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1389	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1391	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1393	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1394	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1395	ERJ3GEYJ272	M 2.7KOHMJ,J1/16W	
R1396	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1397	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1399	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1400	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1401	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1403	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1404	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1406	ERJ6GEYJ221	M 220 OHM,J,1/10W	
R1407	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1409	ERJ3GEYJ272	M 2.7KOHMJ,J1/16W	
R1412	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1416	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1417	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1420	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1421	EXB38V103J	RESISTOR ARRAY	
R1423	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1425	EXB38V220J	RESISTOR ARRAY	
R1426	EXB38V220J	RESISTOR ARRAY	
R1427	EXB38V220J	RESISTOR ARRAY	
R1428	EXB38V220J	RESISTOR ARRAY	
R1429	EXB38V220J	RESISTOR ARRAY	
R1431	EXB38V103J	RESISTOR ARRAY	
R1435	EXB38V103J	RESISTOR ARRAY	
R1436	EXB38V220J	RESISTOR ARRAY	
R1439	EXB38V103J	RESISTOR ARRAY	
R1440	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1441	EXB38V103J	RESISTOR ARRAY	
R1444	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1447	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1449	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1450	ERJ3GEYJ220	M 22 OHM,J,1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1451	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1452	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1453	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1454	ERJ3GEYJ471	M 470 OHM,J,1/16W	
R1455	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1456	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1457	ERJ6GEYJ331	M 330 OHM,J,1/10W	
R1458	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1459	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1460	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1461	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1462	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1463	EXB38V220J	RESISTOR ARRAY	
R1464	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1470	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1472	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1473	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1474	EXB38V220J	RESISTOR ARRAY	
R1475	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1476	ERJ6GEYJ560	M 56 OHM,J,1/10W	
R1477	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1478	ERJ3GEYJ471	M 470 OHM,J,1/16W	
R1479	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1480	ERJ6GEYJ560	M 56 OHM,J,1/10W	
R1481	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1482	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1483	ERJ6GEYJ560	M 56 OHM,J,1/10W	
R1491	EXB38V220J	RESISTOR ARRAY	
R1492	EXB38V220J	RESISTOR ARRAY	
R1493	EXB38V220J	RESISTOR ARRAY	
R1494	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1496	EXB38V220J	RESISTOR ARRAY	
R1498	EXB38V220J	RESISTOR	
R1499	EXB38V220J	RESISTOR ARRAY	
R1500	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1501	ERJ6ENF2202	M 2.2KOHM, 1/10W	
R1502	ERJ3GEYJ471	M 470 OHM,J,1/16W	
R1503	ERJ6ENF2202	M 2.2KOHM, 1/10W	
R1504	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1508	EXB38VR000	RESISTOR ARRAY	
R1509	EXB38V220J	RESISTOR ARRAY	
R1510	EXB38V102J	RESISTOR ARRAY	
R1511	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1512	EXB38VR000	RESISTOR ARRAY	
R1513	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1516	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1517	EXB38V220J	RESISTOR ARRAY	
R1518	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1519	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1520	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1521	EXB38V220J	RESISTOR ARRAY	
R1522	ERJ6GEYJ470	M 47 OHM,J,1/10W	
R1523	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1524	EXB38V220J	RESISTOR ARRAY	

Ref. No.	Part No.	Part Name & Description	Remarks
R1525	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1526	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1527	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1528	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1529	EXB38V220J	RESISTOR ARRAY	
R1531	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1532	EXB38V220J	RESISTOR ARRAY	
R1534	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1536	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1537	EXB38V220J	RESISTOR ARRAY	
R1538	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1539	EXB38V220J	RESISTOR ARRAY	
R1541	EXB38V220J	RESISTOR ARRAY	
R1542	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1543	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1544	EXB38V220J	RESISTOR ARRAY	
R1545	EXB38V220J	RESISTOR ARRAY	
R1546	EXB38V220J	RESISTOR ARRAY	
R1547	EXB38V220J	RESISTOR ARRAY	
R1548	EXB38V220J	RESISTOR ARRAY	
R1549	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1550	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1551	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1552	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1553	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1554	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1555	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1556	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1558	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1559	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1560	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1561	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1562	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1563	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1564	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1565	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1566	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1567	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1568	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1569	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1570	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1571	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1572	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1573	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1574	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1575	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1576	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1577	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1578	ERJ6GEYJ331	M 330 OHM,J,1/10W	
R1579	ERJ6GEYJ331	M 330 OHM,J,1/10W	
R1580	ERJ6GEYJ331	M 330 OHM,J,1/10W	
R1581	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1582	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1583	ERJ3GEYJ220	M 22 OHM,J,1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1584	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1585	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1586	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1587	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1588	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1589	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1590	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1591	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1592	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1593	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1594	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1595	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1596	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1597	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1598	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1599	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1600	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1601	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1602	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	
R1603	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	
R1604	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	
R1605	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	
R1606	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	
R1607	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	
R1608	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1609	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1610	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1611	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1612	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1613	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1614	ERJ6GEYJ3R3	M3.3OHM,J, 1/10W	
R1615	ERJ6GEYJ3R3	M3.3OHM,J, 1/10W	
R1616	ERJ6GEYJ3R3	M3.3OHM,J, 1/10W	
R1617	ERJ6GEYJ3R3	M3.3OHM,J, 1/10W	
R1618	ERJ6GEYJ3R3	M3.3OHM,J, 1/10W	
R1619	ERJ6GEYJ3R3	M3.3OHM,J, 1/10W	
R1620	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1621	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1622	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1623	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1624	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1625	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1626	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1627	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1628	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1629	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1630	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1631	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1632	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1633	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1634	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1635	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1636	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1637	ERJ3GEYJ220	M 22 OHM,J,1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1638	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1639	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1640	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1641	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1642	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1643	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1644	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1645	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1646	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1647	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1648	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1649	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1650	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1651	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1652	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1653	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1654	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1655	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1656	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1657	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1658	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1659	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1660	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1661	ERJ3GEYJ681	M 680 OHM,J,1/16W	
R1662	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1663	ERJ3GEY0R00	M 0 OHM, 1/16W	
R2002	ERJ6ENF5601	M 5.6KOHM, 1/10W	
R2003	ERJ6ENF1501	M 1.5KOHM, 1/10W	
R2004	ERJ6ENF1501	M 1.5KOHM, 1/10W	
R2005	ERJ6ENF2701	M 2.7KOHM, 1/10W	
R2006	ERJ6ENF6801	M 6.8KOHM, 1/10W	
R2007	ERJ6ENF3302	M 33KOHM, 1/10W	
R2008	ERJ6ENF5601	M 5.6KOHM, 1/10W	
R2009	ERJ6ENF1001	M 1KOHM, 1/10W	
R2010	ERJ6ENF1801	M 1.8KOHM, 1/10W	
R2011	ERJ6ENF2701	M 2.7KOHM, 1/10W	
R2012	ERJ6ENF6801	M 6.8KOHM, 1/10W	
R2013	ERJ6ENF3302	M 33KOHM, 1/10W	
R2014	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R2015	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R2022	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R2023	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R2028	ERJ3GEYJ100	M 10 OHM,J,1/16W	
R2029	ERJ3GEYJ100	M 10 OHM,J,1/16W	
R3000	ERJ6GEYJ470	M 47 OHM,J,1/10W	
R3001	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R3004	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R3005	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R3006	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R3007	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R3008	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R3009	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R9762	ERJ3GEYJ100	M 10 OHM,J,1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
[CAPACITORS]			
C1001	ECUX1A105ZF	C 1UF, Z, 10V	
C1002	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1003	ECUX1A105ZF	C 1UF, Z, 10V	
C1004	ECJ1XB1H472K	C 4700PF, K, 50V	
C1010	EEVHB1C101	E 100UF, 16V	
C1012	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1013	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1014	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1015	ECUM1H102JCN	C 1000PF, J ,16V	
C1016	EEVHB0J330	E 33UF, 6.3V	
C1017	EEVHB0J330	E 33UF, 6.3V	
C1018	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1019	ECUX1A105ZF	C 1UF, Z, 10V	
C1020	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1021	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1022	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C1023	ECUX1A105ZF	C 1UF, Z, 10V	
C1024	EEVHB0J101	E 100UF, 6.3V	EEVHB0J101P
C1025	EEVHB1A330	E 33UF, 10V	
C1026	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1027	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1028	EEVHB0J330	E 33UF, 6.3V	
C1029	ECUX1A105ZF	C 1UF, Z, 10V	
C1030	ECUX1A105ZF	C 1UF, Z, 10V	
C1031	ECUX1A105ZF	C 1UF, Z, 10V	
C1032	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1033	ECUX1A105ZF	C 1UF, Z, 10V	
C1034	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1035	ECUX1A105ZF	C 1UF, Z, 10V	
C1037	ECUX1A105ZF	C 1UF, Z, 10V	
C1038	ECUX1A105ZF	C 1UF, Z, 10V	
C1039	ECUX1H470JCV	C 47PF, J, 50V	ECJ1XC1H470J
C1040	ECUX1H080DCV	C 8PF, 50V	
C1041	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1042	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1044	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1046	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1048	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1049	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1050	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1051	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1052	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1053	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1054	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1055	ECUX1H472KBV	C 0.47UF, 50V	
C1056	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C1057	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1058	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C1061	ECUX1A105ZF	C 1UF, Z, 10V	
C1063	ECUX1A105ZF	C 1UF, Z, 10V	
C1066	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1067	ECUX1C104ZFV	C 0.1UF, Z, 16V	

Ref. No.	Part No.	Part Name & Description	Remarks
C1068	ECUX1A105ZF	C 1UF, Z, 10V	
C1070	ECUX1H680JCV	C 68PF, J, 50V	
C1071	ECUX1H330JCV	C 33PF, J, 50V	ECJ1XC1H330J
C1072	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1073	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1074	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1075	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C1076	ECUX1A105ZF	C 1UF, Z, 10V	
C1077	EEVHB0J101	E 100UF, 6.3V	EEVHB0J101P
C1078	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1079	ECUX1H330JCV	C 33PF, J, 50V	ECJ1XC1H330J
C1080	ECJ1XC1H101J	C 100PF, J, 50V	
C1081	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1082	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1083	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1084	ECUX1C104KBV	C 0.1UF, 16V	ECJ1XB1C104K
C1085	ECUX1H222KBV	C 2200PF, 50V	ECJ1XB1H222K
C1086	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1087	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1088	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1089	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1090	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1091	EEVHB0J330	E 33UF, 6.3V	
C1092	EEVHB0J330	E 33UF, 6.3V	
C1093	EEVHB0J470	E 47UF, 6.3V	
C1094	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1095	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1096	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1097	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1098	ECUX1H222KBV	C 2200PF, 50V	ECJ1XB1H222K
C1099	ECUX1C104KBV	C 0.1UF, 16V	ECJ1XB1C104K
C1100	EEVHB0J330	E 33UF, 6.3V	
C1101	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1102	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1103	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1104	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1105	ECUX1A105ZF	C 1UF, Z, 10V	
C1106	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1107	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1108	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1109	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1110	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1111	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1112	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1113	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1114	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1127	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1128	EEVHB1C221	E 220UF, 16V	
C1129	EEVHB1C221	E 220UF, 16V	
C1130	EEVHB1C221	E 220UF, 16V	
C1131	ECUX1A105ZF	C 1UF, Z, 10V	
C1132	ECUX1A105ZF	C 1UF, Z, 10V	
C1133	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1134	EEVHB0J330	E 33UF, 6.3V	

Ref. No.	Part No.	Part Name & Description	Remarks
C1135	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1136	EEVHB0J330	E 33UF, 6.3V	
C1137	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1138	EEVHB0J330	E 33UF, 6.3V	
C1139	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1140	EEVHB0J330	E 33UF, 6.3V	
C1141	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1142	EEVHB0J330	E 33UF, 6.3V	
C1143	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1144	EEVHB0J330	E 33UF, 6.3V	
C1146	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1147	ECUX1A105ZF	C 1UF, Z, 10V	
C1148	ECUX1A105ZF	C 1UF, Z, 10V	
C1149	ECUX1A105ZF	C 1UF, Z, 10V	
C1150	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1151	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1152	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1153	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1154	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1155	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1156	EEVHB1E330	E 33UF, 25V	
C1157	ECUX1A105ZF	C 1UF, Z, 10V	
C1158	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1159	ECUX1A105ZF	C 1UF, Z, 10V	
C1160	ECUX1A105ZF	C 1UF, Z, 10V	
C1161	EEVHB1C100	E 10UF, 16V	
C1162	EEVHB1C100	E 10UF, 16V	
C1163	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1164	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1165	EEVHB1E330	E 33UF, 25V	
C1166	EEVHB1C100	E 10UF, 16V	
C1167	EEVHB1C100	E 10UF, 16V	
C1168	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1169	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1170	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C1171	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1172	EEVHB1E330	E 33UF, 25V	
C1173	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C1174	EEVHB0J101	E 100UF, 6.3V	EEVHB0J101P
C1175	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1177	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1178	EEVHB0J470	E 47UF, 6.3V	
C1179	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1180	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1181	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1182	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1183	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1184	ECJ1XF1A105Z	C 1UF, Z, 16V	
C1185	EEVHB0J470	E 47UF, 6.3V	
C1186	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1187	ECJ1XF1A105Z	C 1UF, Z, 16V	
C1188	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1189	ECUX1H473ZFV	C 0.047UF, K, 50V	ECJ1XF1H473Z
C1190	ECUX1H473ZFV	C 0.047UF, K, 50V	ECJ1XF1H473Z

Ref. No.	Part No.	Part Name & Description	Remarks
C1191	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1192	ECUX1H102KBV	C 1000PF, K, 50V	
C1193	ECUX1H473ZFV	C 0.047UF, K, 50V	ECJ1XF1H473Z
C1194	ECUX1H102KBV	C 1000PF, K, 50V	
C1195	ECUX1H473ZFV	C 0.047UF, K, 50V	ECJ1XF1H473Z
C1196	ECUX1H473ZFV	C 0.047UF, K, 50V	ECJ1XF1H473Z
C1197	ECUX1H473ZFV	C 0.047UF, K, 50V	ECJ1XF1H473Z
C1198	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1199	EEVHB1C100	E 10UF, 16V	
C1200	EEVHB0J101	E 100UF, 6.3V	EEVHB0J101P
C1201	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1202	ECUX1H151JCV	C 150PF, J, 50V	ECJ1XC1H151J
C1205	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1206	ECUX1H472KBV	C 0.47UF, 50V	
C1207	ECUX1A105ZF	C 1UF, Z, 10V	
C1208	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1209	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C1210	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C1211	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C1212	ECJ1XF1A105Z	C 1UF, Z, 16V	
C1213	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C1214	ECUX1H392KBV	C 3900PF, J, 50V	
C1215	ECUX1C393KBV	C 0.039UF, K, 16V	
C1216	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1217	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C1218	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1219	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1220	ECJ2XC1H391J	C 390PF, J, 50V	
C1221	ECUX1A105ZF	C 1UF, Z, 10V	
C1222	EEVHB1C100	E 10UF, 16V	
C1223	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1224	ECUX1H181JCV	C 180PF, 50V	ECJ1XC1H181J
C1225	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1226	ECJ1XF1A105Z	C 1UF, Z, 16V	
C1227	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1228	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1229	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1230	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1231	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C1232	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1233	ECUX1H150JCV	C 15PF, J, 50V	ECJ1XC1H150J
C1234	ECUX1H150JCV	C 15PF, J, 50V	ECJ1XC1H150J
C1242	EEVHB0J470	E 47UF, 6.3V	
C1243	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1244	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1245	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1246	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1247	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1248	EEVHB0G101	E 100UF, 4V	
C1249	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1250	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1251	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1252	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1253	ECUX1C104ZFV	C 0.1UF, Z, 16V	

Ref. No.	Part No.	Part Name & Description	Remarks
C1254	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1255	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1256	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1257	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1258	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1259	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1260	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1261	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1262	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1263	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1264	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1265	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1266	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1267	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1268	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1269	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1270	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1271	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1272	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1273	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1274	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1275	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1276	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1277	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1278	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1279	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1280	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1281	ECUX1A105ZF	C 1UF, Z, 10V	
C1282	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1283	ECUX1C473KBV	C 0.047UF, K, 16V	ECJ1XB1C473K
C1284	ECUX1C473KBV	C 0.047UF, K, 16V	ECJ1XB1C473K
C1286	ECUX1A105ZF	C 1UF, Z, 10V	
C1287	ECUX1H473ZFV	C 0.047UF, K, 50V	ECJ1XF1H473Z
C1288	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1289	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1290	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1291	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1292	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1293	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1294	ECJ1XC1H101J	C 100PF, J, 50V	
C1295	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1296	ECUM1H471JCN	C 470PF, 50V	ECJ2XC1H471J
C1299	ECUX1H220JCV	C 22PF, 50V	ECJ1XC1H220J
C1300	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1301	ECUX1H220JCV	C 22PF, 50V	ECJ1XC1H220J
C1302	EEVHB0J470	E 47UF, 6.3V	
C1304	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1305	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1306	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1307	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1308	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1309	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1310	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1311	ECUX1C104ZFV	C 0.1UF, Z, 16V	

Ref. No.	Part No.	Part Name & Description	Remarks
C1312	EEVHB0G101	E 100UF, 4V	
C1313	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C1314	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1315	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1316	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1317	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1318	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1319	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1320	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1322	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1323	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1324	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1325	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1326	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1327	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1328	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1329	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1330	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1331	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1332	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1333	EEVHB0G101	E 100UF, 4V	
C1337	EEVHB0J470	E 47UF, 6.3V	
C1338	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1339	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1340	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1341	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1342	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1343	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1344	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1345	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1346	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1347	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1348	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1349	EEVHB0J470	E 47UF, 6.3V	
C1350	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1351	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1352	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1353	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1355	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1356	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1357	EEVHB1E4R7	E 4.7UF, 25V	
C1358	EEVHB1E4R7	E 4.7UF, 25V	
C1359	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1360	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1361	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1362	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1363	EEVHB1A330	E 33UF, 10V	
C1364	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1365	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1366	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1367	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1368	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1369	EEVHB0J101	E 100UF, 6.3V	EEVHB0J101P
C1370	EEVHB0J101	E 100UF, 6.3V	EEVHB0J101P

Ref. No.	Part No.	Part Name & Description	Remarks
C1371	EEVHB1E4R7	E 4.7UF, 25V	
C1372	EEVHB0J101	E 100UF, 6.3V	EEVHB0J101P
C1373	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1374	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1375	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1376	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1377	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1378	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1379	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1380	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1381	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1382	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1383	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1384	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1385	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1386	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1387	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1388	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1389	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1390	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1391	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1392	ECJ2XF1C105Z	C 1UF, Z, 16V	
C1393	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1394	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1395	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1396	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1397	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1398	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1399	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1400	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1401	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1402	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1403	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1406	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1407	ECUX1A105ZF	C 1UF, Z, 10V	
C1408	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1409	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1410	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1411	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1412	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1413	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1414	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1415	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1416	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1417	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1418	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1419	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1420	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1421	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1422	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1423	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1424	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1425	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1426	ECJ1XF1E104Z	C 0.1UF, Z, 25V	

Ref. No.	Part No.	Part Name & Description	Remarks
C1427	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1428	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1429	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1430	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1431	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1432	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1433	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1434	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1435	EEVHB1E4R7	E 4.7UF, 25V	
C1436	EEVHB1E4R7	E 4.7UF, 25V	
C1437	EEVHB1E4R7	E 4.7UF, 25V	
C1438	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1439	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1441	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1442	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1444	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1445	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1447	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1448	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1450	EEVHB1E4R7	E 4.7UF, 25V	
C1451	EEVHB0J330	E 33UF, 6.3V	
C1452	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1453	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1454	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1455	EEVHB1E330	E 33UF, 25V	
C1456	EEVHB1E330	E 33UF, 25V	
C1457	EEVHB1E330	E 33UF, 25V	
C1458	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1459	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1460	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1461	ECJ2XF1C105Z	C 1UF, Z, 16V	
C1462	ECJ2XF1C105Z	C 1UF, Z, 16V	
C1463	ECJ2XF1C105Z	C 1UF, Z, 16V	
C1464	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C2001	EEVHB0J470	E 47UF, 6.3V	
C2002	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C3000	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C3001	EEVHB0J470	E 47UF, 6.3V	
[OTHERS]			
A1	K1MN30B00087	30P CONNECTOR	
A2	K1MN30B00087	30P CONNECTOR	
A3	K1MN30B00087	30P CONNECTOR	
A4	K1KB05B00019	5P CONNECTOR	
A6	K1KA13B00031	13P CONNECTOR	
A7	TJSF43706	6P CONNECTOR	K1KA06B00096
A8	TJSF43706	6P CONNECTOR	K1KA06B00096
A9	TJS9A9060	2P CONNECTOR	K1KA02B00051
A11	TJS9A9060	2P CONNECTOR	K1KA02B00051
A15	TJS6A8780	3P CONNECTOR	K1KA03B00006
A17	TJS6A8780	3P CONNECTOR	K1KA03B00006
A18	TJS6A8780	3P CONNECTOR	K1KA03B00006
A19	TJS6A8780	3P CONNECTOR	K1KA03B00006

Ref. No.	Part No.	Part Name & Description	Remarks
R1	TJSF43706	6P CONNECTOR	K1KA06B00096
S1	TJSF43706	6P CONNECTOR	K1KA06B00096
JK1001	TJSF42904	CONNECTOR	K1CB204B0004
JK1002	K2HA101A0013	CONNECTOR	
JK1003	K2HA102A0019	CONNECTOR	
JK1004	K1FB115B0066	D-SUB 15P	
JK1005	K1FB115B0066	D-SUB 15P	
JK1006	TJS4A8390	CONNECTOR	K1FB109B0058
JS1001	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1002	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1003	ERJ3GEY0R00	M 0 OHM, 1/16W	
JS1004	ERJ3GEY0R00	M 0 OHM, 1/16W	
JS1005	ERJ3GEY0R00	M 0 OHM, 1/16W	
JS1006	ERJ3GEY0R00	M 0 OHM, 1/16W	
JS1007	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1008	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1009	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1010	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1011	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1012	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1013	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1014	ERJ3GEY0R00	M 0 OHM,J,1/16W	
JS1015	ERJ3GEY0R00	M 0 OHM,J,1/16W	
JS1016	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1017	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1018	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1019	ERJ6GEY0R00	M 0 OHM,J,1/10W	
F101	K5Y632B00001	FUSE	⚠
F102	K5Y632B00001	FUSE	⚠
RM1001	B3RAD0000038	REMOTE CONTROLL RECIVER	
RM3001	B3RAD0000038	REMOTE CONTROLL RECIVER	
S2001	EVQPLHA15	SWITCH	
S2002	EVQPLHA15	SWITCH	
S2003	EVQPLHA15	SWITCH	
S2004	EVQPLHA15	SWITCH	
S2005	EVQPLHA15	SWITCH	
S2006	EVQPLHA15	SWITCH	
S2007	EVQPLHA15	SWITCH	
S2008	EVQPLHA15	SWITCH	
S2009	EVQPLHA15	SWITCH	
X1001	TSSA148	CRYSTAL	H0J202500002
X1002	H1A7505B0001	CRYSTAL	
X1003	H0J737400005	CRYSTAL	
X1004	H1A2005B0014	CRYSTAL	
X1005	TSSA124	CRYSTAL	H0J120500007
Z9601	G4F3E0000002	IGNITER	⚠
RTL	TNPA2361AB	CIRCUIT BOARD P	
RTL	TNPA2391	CIRCUIT BOARD S	
RTL	TNPA2400	CIRCUIT BOARD R	
RTL	TXANP01VJJ8	CIRCUIT BOARD A	
RTL	TXANP03VJJ8	CIRCUIT BOARD K	
RTL	TXANPBQPLPZ	CIRCUIT BOARD BQ	

15.2. PT-LC55U/E, PT-U1S65

Ref. No.	Part No.	Part Name & Description	Remarks
[MECHANICAL PARTS]			
K1	AJ7241B	POWER SWITCH	⚠
G1	CR2025/1B	BATTERY	
G2	D4CDH5030001	THERMISTER	⚠
K2	K2AH3B000016	AC INLET	⚠
K3	K2CG3FZ00008	POWER CORD	⚠PT-LC55U
K3-1	K2CT3FZ00001	POWER CORD	⚠PT-LC55E
K3-2	K2CM3FZ00001	POWER CORD	⚠PT-LC55E
K3-3	K2CZ3FR00001	POWER CORD	⚠PT-U1S65
K4	L0AA04C00002	SPEAKER	
K5	L5BDAXN00037	LIQUID CRYSTAL DISPLAY(R)	
K6	L5BDAXN00038	LIQUID CRYSTAL DISPLAY(G)	
K7	L5BDAXN00039	LIQUID CRYSTAL DISPLAY(B)	
K8	L6FAKDEH0001	FAN	⚠
K9	L6FCJC9H0002	FAN	⚠
K10	L6FCLFCH0004	FAN	⚠
K11	TBLB3068	ADJUST LEG (RIGHT)	
K12	TBLB3069	ADJUST LEG (LEFT)	
K13	TBLG3042	RUBBER LEG (REAR)	
G3	TBME502	MODEL NAME PLATE	PT-LC55U
	TBME506	MODEL NAME PLATE	PT-LC55E
	TBME510	MODEL NAME PLATE	PT-U1S65
K14	TBXA34101	CONTROL BUTTUN	
K15	TEEC5067	DUCT	
K16	TEEC5068	DUCT	
K17	TEEC5069	DUCT	
K18	TEEC5070	DUCT	
K19	TENC0129	POLARIZING PLATE / IN (R)	
K20	TENC0118	POLARIZING PLATE / IN (G)	
K21	TENC0119	POLARIZING PLATE / IN (B)	
K22	TENC5170	LCD INSTALL METAL	
G5	THEC052N	D-SUB SCREW	
G6	THEC053U	SCREW	
G7	TKFE06601	REMOTE CONTROLLER CASE	
K23	TKGF0058	PBS ARRAY	
K24	TKGF0060	LENS	
K25	TKGP5079	POLARIZING PLATE / OUT(R)	
K26	TKGP5086	POLARIZING PLATE / OUT(G)	
K27	TKGP5087	POLARIZING PLATE / OUT(B)	
K28	TKKC5131	LED COVER 1	
K29	TKKC5132	LED COVER 2	
K30	TKKL5208	LENS COVER	
K31	TKNE045	FILTER	
K32	TKZF5019	TERMINAL METAL	
K33	TKZJ5032	FAN INSTAL METAL	

Ref. No.	Part No.	Part Name & Description	Remarks
K34	TKZJ5033	FAN INSTAL METAL	
K35	TKZJ5034	FAN METAL	
G8	TMKK103	SHEET	
G9	TMKX100	WASHER	
G10	TMKX332	SHEET	
G11	TMKX381	SHEET	
K36	TMKX349	SHEET	
G12	TMKX359	SHEET	
K37	TMMA034	FAN ADAPTER	
G13	TMME159	SPACER	
G14	TMME196	SPACER	
G15	TMXC017	TEMP FUSE METAL	
K38	TMZK5011	SPEAKER BOX	
K39	TMZX5021	FILTER COVER	
K40	TNQE239	REMOTE CONTROLLER	
G16	TPCB17104	CARTON	PT-LC55U
	TPCB17106	CARTON	PT-LC55E
	TPCB17108	CARTON	PT-U1S65
G17	TPDF0812	PAD	
G18	TPDF0813	CARRING CASE PAD	
G19	TPDF0818	ACCESSORY CARTON	
G20	TPEH124	SET COVER	
G21	TPEP006-1	CARRYING CASE	PT-LC55U
	TPEP006	CARRYING CASE	PT-LC55E, PT-U1S65
G22	TQF86202	LABEL	
G23	TQZC204	FAN BAG	⚠PT-LC55U
G24	TQBJ0093	INSTRUCTION BOOK	⚠PT-LC55E
	TQBJ0094	INSTRUCTION BOOK	⚠PT-U1S65
K41	TSEX8005	SWITCH	⚠K0ADBF000007
K42	TSXF163	CABLE	K1HA30DA0003
K43	TTFA0110	TERMINAL COVER	
K44	TUCC5760	POWER UNIT BOX	
K45	TUCJ5416	HEAT SINK	
K46	TUCX5099	METAL	
K47	TUCX5100	METAL	
K48	TUWC035	INSTAL METAL (K-PCB)	
K49	TXFKK01VJJ8	LAMP COVER	
G25	TXJ/K1VJJ8A	TEMPERATURE FUSE	⚠
K50	UDQF7TB01C	FAN	⚠
K51	XSB3+8FN	LAMP COVER SCREW	
K52	XSN4+10	SCREW	
G26	XSN4+15	SCREW	
G27	XSS2+6FZ	SCREW	
G28	XTBT969Z	SCREW	
G29	XTN3+6G	SCREW	
G30	XTV3+10J	SCREW	
G31	XYN2+J6	SCREW	
G32	XYN3+F10	SCREW	
G33	XYN3+F25	SCREW	
G34	XYN3+F6	SCREW	
G35	XYN3+F8	SCREW	
G36	XYN3+J35	SCREW	

Ref. No.	Part No.	Part Name & Description	Remarks
G37	XYN3+J8	SCREW	
G38	XYN4+E8	SCREW	
G39	XYN4+J22	SCREW	
K53	XYN4+J30	SCREW	
G40	XYN4+J32FZ	SCREW	
K54	TXFTT99PLPZ	UPPER COVER ASSY	
K55	TXFKF99PLLZ	BOTTOM COVER ASSY	PT-LC55U
	TXFKF99PLMZ	BOTTOM COVER ASSY	PT-LC55E
	TXFKF99PLNZ	BOTTOM COVER ASSY	PT-U1S65
K56	TXFEC99VJJ7	ANALYSIS BLOCK	
K57	TXFEN99VJJ7	OPTICAL BASE BLOCK	
[INTEGRATED CIRCUIT]			
IC101	C0DBZZZ00046	I.C	
IC151	MIP289	I.C	
IC1001	C0FBAD000067	I.C	
IC1002	TC7SH08FTL	I.C	C0JBAA000101
IC1003	M52036SP	I.C	C1AA00000392
IC1004	MC14053BF	I.C	C0JBAR000023
IC1005	C1AB00001524	I.C	
IC1006	C3ABPJ000008	I.C	
IC1007	C1ZBZ0001965	I.C	
IC1009	C0ZBZ0000624	I.C	
IC1010	C2GBC0000135	I.C	
IC1011	TVRJ609	I.C	
IC1012	TC74LCX574TL	I.C	C0JBAF000315
IC1013	TC7SH32FTL	I.C	C0JBAE000146
IC1014	C0JBAZ000855	I.C	
IC1016	M51957BFP	I.C	C0EBB0000024
IC1017	C3EBJC000037	I.C	
IC1018	C1GB00000041	I.C	
IC1020	C3EBCC000045	I.C	
IC1021	C3EBCC000045	I.C	
IC1022	C0ABGB000016	I.C	
IC1023	C0ABGB000016	I.C	
IC1024	C0ABGB000016	I.C	
IC1025	AN78L12M	I.C	
IC1026	C1BB00000646	I.C	
IC1027	C3BBFC000127	I.C	
IC1028	C0JBAZ001488	I.C	
IC1029	C0DBEZE00002	I.C	
IC1030	C0DBEZE00002	I.C	
IC1031	C0DBEZE00002	I.C	
IC1032	C0JBAZ001488	I.C	
IC1033	C1AB00001556	I.C	
IC1034	C1AB00001555	I.C	
IC1035	M52755FP	I.C	C1AB00000789
IC1036	C0JBAZ001488	I.C	
IC1040	C0CBADD00009	I.C	
IC1041	C0CBADD00009	I.C	
IC1042	C0CBABD00015	I.C	
IC1043	PQ07VZ012ZP	I.C	C0DBEZG00004
IC1044	C0CBAAD00008	I.C	

Ref. No.	Part No.	Part Name & Description	Remarks
IC1050	C1AB00001516	I.C	
IC1051	C1AB00001523	I.C	
IC1052	C1AB00001523	I.C	
IC1053	C1AB00001523	I.C	
IC1057	C1AB00001522	I.C	
IC1058	C1AB00001522	I.C	
IC1060	M62398FP	I.C	C0FBBD000087
IC1061	AN78L12M	I.C	
IC1062	AN78L05M	I.C	
IC1070	UPD4721GS	I.C	C0JBAZ000237
IC1071	C0JBAZ000855	I.C	
IC1072	AN78L05M	I.C	
IC1073	C2BBCB000013	I.C	
IC9602	C0ZAZ0000077	I.C	
IC9603	C0ZAZ0000077	I.C	
IC9701	C0DBALC00005	I.C	
IC9707	AN78L09M	I.C	
IC9708	AN78L05M	I.C	
[TRANSISTORS]			
Q101	2SK2837	TRANSISTOR	B1DEHQ000001
Q131	B1DEGQ000017	TRANSISTOR	
Q251	UN2211	TRANSISTOR	UNR2211
Q1001	2SD601AR	TRANSISTOR	2SD0601AR
Q1002	2SD601AR	TRANSISTOR	2SD0601AR
Q1003	2SD601AR	TRANSISTOR	2SD0601AR
Q1004	2SD601AR	TRANSISTOR	2SD0601AR
Q1005	2SD601AR	TRANSISTOR	2SD0601AR
Q1006	2SD601AR	TRANSISTOR	2SD0601AR
Q1007	2SD601AR	TRANSISTOR	2SD0601AR
Q1008	2SD601AR	TRANSISTOR	2SD0601AR
Q1009	2SB709A	TRANSISTOR	2SB0709A
Q1010	2SB709A	TRANSISTOR	2SB0709A
Q1011	2SD601AR	TRANSISTOR	2SD0601AR
Q1012	2SC3545	TRANSISTOR	
Q1013	2SC3545	TRANSISTOR	
Q1014	2SC3545	TRANSISTOR	
Q1015	2SD601AR	TRANSISTOR	2SD0601AR
Q1019	2SC3545	TRANSISTOR	
Q1020	2SD601AR	TRANSISTOR	2SD0601AR
Q1021	2SB709A	TRANSISTOR	2SB0709A
Q1022	2SC3545	TRANSISTOR	
Q1023	2SC3545	TRANSISTOR	
Q1024	2SD601AR	TRANSISTOR	2SD0601AR
Q1025	2SD601AR	TRANSISTOR	2SD0601AR
Q1026	2SB709A	TRANSISTOR	2SB0709A
Q1027	2SD601AR	TRANSISTOR	2SD0601AR
Q1028	2SB709A	TRANSISTOR	2SB0709A
Q1029	2SD601AR	TRANSISTOR	2SD0601AR
Q1030	2SD601AR	TRANSISTOR	2SD0601AR
Q1031	2SD601AR	TRANSISTOR	2SD0601AR
Q1032	2SB709A	TRANSISTOR	2SB0709A
Q1033	2SD601AR	TRANSISTOR	2SD0601AR

Ref. No.	Part No.	Part Name & Description	Remarks
Q1034	2SB709A	TRANSISTOR	2SB0709A
Q1035	2SD601AR	TRANSISTOR	2SD0601AR
Q1036	2SB709A	TRANSISTOR	2SB0709A
Q1037	2SD601AR	TRANSISTOR	2SD0601AR
Q1038	2SD601AR	TRANSISTOR	2SD0601AR
Q1039	2SK620	FET	2SK0620
Q1040	2SK620	FET	2SK0620
Q1041	2SD601AR	TRANSISTOR	2SD0601AR
Q1042	2SD601AR	TRANSISTOR	2SD0601AR
Q1043	2SD601AR	TRANSISTOR	2SD0601AR
Q1049	2SD601AR	TRANSISTOR	2SD0601AR
Q1057	2SB709A	TRANSISTOR	2SB0709A
Q1058	2SB709A	TRANSISTOR	2SB0709A
Q1073	2SD601AR	TRANSISTOR	2SD0601AR
Q1074	2SD601AR	TRANSISTOR	2SD0601AR
Q1075	2SB709A	TRANSISTOR	2SB0709A
Q1600	2SB709A	TRANSISTOR	2SB0709A
Q1601	2SB709A	TRANSISTOR	2SB0709A
Q1602	2SB709A	TRANSISTOR	2SB0709A
Q1603	2SD601AR	TRANSISTOR	2SD0601AR
Q1604	2SD601AR	TRANSISTOR	2SD0601AR
Q1605	2SD601AR	TRANSISTOR	2SD0601AR
Q1606	2SD601AR	TRANSISTOR	2SD0601AR
Q1607	2SB709A	TRANSISTOR	2SB0709A
Q1608	2SD601AR	TRANSISTOR	2SD0601AR
Q1609	2SB709A	TRANSISTOR	2SB0709A
Q1610	2SD601AR	TRANSISTOR	2SD0601AR
Q1611	2SB709A	TRANSISTOR	2SB0709A
Q1612	2SD601AR	TRANSISTOR	2SD0601AR
Q1613	2SB709A	TRANSISTOR	2SB0709A
Q1614	2SD601AR	TRANSISTOR	2SD0601AR
Q1615	2SB709A	TRANSISTOR	2SB0709A
Q1616	2SD601AR	TRANSISTOR	2SD0601AR
Q1617	2SB709A	TRANSISTOR	2SB0709A
Q2003	2SB709A	TRANSISTOR	2SB0709A
Q2004	2SB709A	TRANSISTOR	2SB0709A
Q3002	2SD601AR	TRANSISTOR	2SD0601AR
Q3003	2SD601AR	TRANSISTOR	2SD0601AR
Q3004	2SD601AR	TRANSISTOR	2SD0601AR
Q9603	B1DEGQ000017	TRANSISTOR	
Q9604	2SB710A	TRANSISTOR	2SB0710A
Q9605	2SB710A	TRANSISTOR	2SB0710A
Q9606	B1JABQ000001	TRANSISTOR	
Q9607	B1JABQ000001	TRANSISTOR	
Q9608	2SB710A	TRANSISTOR	2SB0710A
Q9609	2SB710A	TRANSISTOR	2SB0710A
Q9610	B1JABQ000001	TRANSISTOR	
Q9611	B1JABQ000001	TRANSISTOR	
Q9612	B1DEGQ000017	TRANSISTOR	
[DIODES]			
D101	B0FBBR000011	DIODE	⚠

Ref. No.	Part No.	Part Name & Description	Remarks
D151	S1VBA60	DIODE	⚠
D1001	MA3056M	ZENER DIODE	MAZ30560M
D1002	MA3056M	ZENER DIODE	MAZ30560M
D1004	MA3056M	ZENER DIODE	MAZ30560M
D1005	MA3033H	DIODE	
D1006	MA3033H	DIODE	
D1007	MA3033H	DIODE	
D1008	MA3033H	DIODE	
D1009	MA3150M	DIODE	MAZ31500M
D1010	MA3150M	DIODE	MAZ31500M
D1011	MA3150M	DIODE	MAZ31500M
D1012	MA3150M	DIODE	MAZ31500M
D1013	MA3033H	DIODE	
D1014	MA3033H	DIODE	
D1015	MA157A	DIODE	MA3X157A
D1016	MA157A	DIODE	MA3X157A
D1017	MA157A	DIODE	MA3X157A
D1018	MA3056M	ZENER DIODE	MAZ30560M
D1019	MA3056M	ZENER DIODE	MAZ30560M
D1020	MA3056M	ZENER DIODE	MAZ30560M
D1021	MA3056M	ZENER DIODE	MAZ30560M
D1022	MA157A	DIODE	MA3X157A
D1023	MA157A	DIODE	MA3X157A
D1024	MA157A	DIODE	MA3X157A
D1025	MA157A	DIODE	MA3X157A
D1026	MA157A	DIODE	MA3X157A
D1027	MA157A	DIODE	MA3X157A
D1028	MA157A	DIODE	MA3X157A
D1029	MA157A	DIODE	MA3X157A
D1030	MA157A	DIODE	MA3X157A
D1031	MA157A	DIODE	MA3X157A
D1033	MA728	DIODE	
D1034	MA721	DIODE	
D1035	LNJ208R8ARA	LED	
D1036	LNJ208R8ARA	LED	
D1037	LNJ208R8ARA	LED	
D1065	D4CE45030001	THERMISTOR	
D2003	LNJ107W5ARA1	LED	
D3000	MA157A	DIODE	MA3X157A
D3001	LNJ208R8ARA	LED	
D3002	LNJ208R8ARA	LED	
D3003	LNJ308G8TRA	LED	
D9612	MA158	DIODE	MA3X158
D9613	MA720	DIODE	MA3X720
D9615	MA158	DIODE	MA3X158
D9616	MA720	DIODE	MA3X720
D9618	MA158	DIODE	MA3X158
D9619	MA720	DIODE	MA3X720
D9621	MA158	DIODE	MA3X158
D9622	MA720	DIODE	MA3X720
[COILS]			

Ref. No.	Part No.	Part Name & Description	Remarks
L101	G0BYYYH00006	COIL	⚠
L1001	EXCML16A270	COIL	
L1002	EXCML16A270	COIL	
L1003	ELJFA470JB	COIL	
L1004	ELJFA470JB	COIL	
L1006	ELJFA270JB	CHIP COIL	
L1007	EXCML16A270	COIL	
L1008	EXCML16A270	COIL	
L1009	EXCML16A270	COIL	
L1010	EXCML16A270	COIL	
L1011	EXCML16A270	COIL	
L1012	ELJFA270JB	CHIP COIL	
L1013	EXCML16A270	COIL	
L1015	EXCML16A270	COIL	
L1016	EXCML16A270	COIL	
L1018	EXCML16A270	COIL	
L1019	EXCML16A270	COIL	
L1020	EXCML16A270	COIL	
L1023	EXCML16A270	COIL	
L1024	ELJFA470JB	COIL	
L1025	EXCML16A270	COIL	
L1026	EXCML16A270	COIL	
L1027	ELJFA6R8JB	CHIP COIL	
L1028	ELJFA470JB	COIL	
L1029	EXCML16A270	COIL	
L1030	EXCML16A270	COIL	
L1031	EXCML16A270	COIL	
L1032	EXCML16A270	COIL	
L1033	EXCML16A270	COIL	
L1034	EXCML16A270	COIL	
L1035	EXCML16A270	COIL	
L1036	EXCML16A270	COIL	
L1037	EXCML16A270	COIL	
L1700	EXCML16A270	COIL	
L1701	EXCML16A270	COIL	
L1702	EXCML16A270	COIL	
L1703	EXCML16A270	COIL	
L1704	EXCML16A270	COIL	
L1705	EXCML16A270	COIL	
L1706	EXCML16A270	COIL	
L1707	EXCML16A270	COIL	
L1708	EXCML16A270	COIL	
L1709	EXCML16A270	COIL	
L1710	EXCML16A270	COIL	
L1711	EXCML16A270	COIL	
L1712	EXCML16A270	COIL	
L1713	EXCML16A270	COIL	
[RESISTORS]			
R134	ERX2SJ3R3	M 3.3 OHM, 2W	
R151	ERDS1TJ100	C 10 OHM,J,1/2W	
R1001	ERJ3GEYJ223	M 22K OHM,J,1/16W	
R1002	ERJ3GEYJ223	M 22K OHM,J,1/16W	

[illegible]	[illegible]	[illegible]	

Ref. No.	Part No.	Part Name & Description	Remarks
R1003	ERJ3GEYJ183	M 18K OHM,J,1/16W	
R1004	ERJ3GEYJ100	M 10 OHM,J,1/16W	
R1005	ERJ6ENF75R0	M 75 OHM, 1/10W	
R1008	EXB38V220J	RESISTOR ARRAY	
R1009	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1010	EXB38V220J	RESISTOR ARRAY	
R1011	EXB38V220J	RESISTOR ARRAY	
R1012	ERJ3GEYJ105	M 1M OHM,J,1/16W	
R1013	EXB38V220J	RESISTOR ARRAY	
R1014	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1015	EXB38V220J	RESISTOR ARRAY	
R1017	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1018	ERJ3GEYJ122	M 1.2KOHM,J,1/16W	
R1021	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1022	ERJ1TYJ470	RESISTOR	
R1023	ERJ1TYJ470	RESISTOR	
R1024	ERJ1TYJ470	RESISTOR	
R1025	ERJ1TYJ470	RESISTOR	
R1027	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1028	ERJ6ENF75R0	M 75 OHM, 1/10W	
R1030	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1031	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1032	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1033	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1034	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1035	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1036	ERJ3GEYJ471	M 470 OHM,J,1/16W	
R1038	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1039	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1041	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1042	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1043	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1044	ERJ3GEYJ471	M 470 OHM,J,1/16W	
R1051	ERJ3GEYJ101	M 100 OHM,J,1/16W	
R1052	ERJ3GEYJ273	M 27KOHM,J,1/16W	
R1053	ERJ3GEYJ392	M 3.9KOHM,J,1/16W	
R1055	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1056	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1057	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1065	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1066	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1067	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	
R1068	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1069	ERJ3GEYJ682	M 6.8KOHM,J,1/16W	
R1071	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1074	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1075	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1076	ERJ3GEYJ182	M 1.8KOHM,J,1/16W	
R1078	ERJ3GEYJ821	M 820 OHM,J,1/16W	
R1079	ERJ6GEYJ821	M 820 OHM,J,1/10W	
R1080	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1081	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1082	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1083	ERJ3GEY0R00	M 0 OHM, 1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1084	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1085	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1086	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1087	ERJ3GEYJ182	M 1.8KOHM,J,1/16W	
R1088	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1101	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1102	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1103	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1104	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1105	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1106	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1107	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1108	ERJ6ENF75R0	M 75 OHM, 1/10W	
R1109	ERJ6ENF75R0	M 75 OHM, 1/10W	
R1110	ERJ6ENF75R0	M 75 OHM, 1/10W	
R1111	ERJ6ENF75R0	M 75 OHM, 1/10W	
R1112	ERJ6ENF75R0	M 75 OHM, 1/10W	
R1113	ERJ6ENF75R0	M 75 OHM, 1/10W	
R1114	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1115	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1116	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1117	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1118	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1119	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1120	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1121	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1122	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	
R1123	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	
R1124	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	
R1125	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1126	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1127	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1128	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1129	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1130	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R1131	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R1132	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R1133	ERJ3GEYJ274	M 270 OHM,J,1/16W	
R1134	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1135	ERJ6ENF75R0	M 75 OHM, 1/10W	
R1136	ERJ6ENF75R0	M 75 OHM, 1/10W	
R1137	ERJ6ENF75R0	M 75 OHM, 1/10W	
R1138	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R1139	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1140	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1141	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1142	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1145	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1146	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1147	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1148	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1149	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1150	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1151	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1152	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1153	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1154	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1155	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1156	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1157	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1158	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1159	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1160	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1161	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1162	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1163	ERJ6GEYJ471	M 470 OHM,J,1/10W	
R1164	ERJ6GEYJ471	M 470 OHM,J,1/10W	
R1165	ERJ6GEYJ471	M 470 OHM,J,1/10W	
R1166	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1167	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1168	ERJ3GEYJ180	M 18 OHM,J,1/16W	
R1172	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1173	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1174	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1175	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1176	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1177	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1181	ERJ3GEYJ471	M 470 OHM,J,1/16W	
R1182	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1183	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1184	ERJ6GEYJ471	M 470 OHM,J,1/10W	
R1185	ERJ3GEYJ471	M 470 OHM,J,1/16W	
R1186	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1187	ERJ3GEYJ180	M 18 OHM,J,1/16W	
R1188	ERJ6ENF2001	M 2KOHM, 1/10W	
R1189	ERJ3GEYJ180	M 18 OHM,J,1/16W	
R1190	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1191	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1192	ERJ3GEYJ180	M 18 OHM,J,1/16W	
R1193	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	
R1194	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1195	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1196	ERJ6GEYJ471	M 470 OHM,J,1/10W	
R1197	ERJ3GEYJ180	M 18 OHM,J,1/16W	
R1198	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	
R1199	ERJ6ENF1000	M 100 OHM, 1/10W	
R1200	ERJ6GEYJ471	M 470 OHM,J,1/10W	
R1201	ERJ3GEYJ681	M 680 OHM,J,1/16W	
R1202	ERJ3GEYJ180	M 18 OHM,J,1/16W	
R1203	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1204	ERJ6ENF2001	M 2KOHM, 1/10W	
R1205	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1206	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1207	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1208	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1210	ERJ6GEYJ3R3	M3.3OHM,J, 1/10W	
R1211	ERJ6GEYJ3R3	M3.3OHM,J, 1/10W	
R1212	ERJ6GEYJ3R3	M3.3OHM,J, 1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1213	ERJ6GEYJ3R3	M3.3OHM,J, 1/10W	
R1214	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1215	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1216	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	
R1217	ERJ6ENF1000	M 100 OHM, 1/10W	
R1218	ERJ3GEYJ333	M 33K OHM,J,1/16W	
R1220	ERJ3GEYJ333	M 33K OHM,J,1/16W	
R1222	ERJ3GEYJ681	M 680 OHM,J,1/16W	
R1223	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1224	ERJ6ENF2001	M 2KOHM, 1/10W	
R1225	ERJ3GEYJ333	M 33K OHM,J,1/16W	
R1226	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1227	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1228	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1229	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1230	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1231	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1232	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	
R1233	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1234	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1235	ERJ6ENF1000	M 100 OHM, 1/10W	
R1236	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1237	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1238	ERJ6GEYJ3R3	M3.3OHM,J, 1/10W	
R1239	ERJ6GEYJ3R3	M3.3OHM,J, 1/10W	
R1240	ERJ6GEYJ3R3	M3.3OHM,J, 1/10W	
R1241	ERJ6GEYJ3R3	M3.3OHM,J, 1/10W	
R1242	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1243	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1247	ERJ3GEYJ333	M 33K OHM,J,1/16W	
R1248	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1249	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1250	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1251	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1252	ERJ3GEYJ152	M 1.5KOHM,J,1/16W	
R1253	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1254	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1255	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1256	ERJ3GEYJ151	M 150 OHM,J,1/16W	
R1257	ERJ3GEYJ151	M 150 OHM,J,1/16W	
R1258	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1259	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1261	ERJ3GEYJ391	M 390 OHM,J,1/16W	D0GB391JA002
R1262	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1263	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1264	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1265	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1267	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1268	ERJ3GEYJ680	M 68 OHM,J,1/16W	
R1269	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1270	ERJ3GEYJ104	M 100KOHM,J,1/16W	
R1271	EXB38V560J	RESISTOR ARRAY	
R1272	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	
R1273	ERJ6ENF3301	M 3.3KOHM, 1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1274	EXB38V560J	RESISTOR ARRAY	
R1275	ERJ3GEYJ183	M 18K OHM,J,1/16W	
R1276	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1277	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1278	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1279	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1280	ERJ3GEYJ183	M 18K OHM,J,1/16W	
R1281	ERJ3GEYJ182	M 1.8KOHM,J,1/16W	
R1282	ERJ6ENF2702	M 27KOHM, 1/10W	
R1283	ERJ3GEYJ182	M 1.8KOHM,J,1/16W	
R1284	ERJ3GEYJ272	M 2.7KOHMJ,J1/16W	
R1285	ERJ3GEYJ182	M 1.8KOHM,J,1/16W	
R1288	EXB38V560J	RESISTOR ARRAY	
R1289	EXB38V560J	RESISTOR ARRAY	
R1290	EXB38V560J	RESISTOR ARRAY	
R1291	EXB38V560J	RESISTOR ARRAY	
R1292	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1293	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1294	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1295	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1296	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1297	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1303	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1304	EXB38V220J	RESISTOR ARRAY	
R1305	EXB38V220J	RESISTOR ARRAY	
R1306	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1307	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1308	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1309	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1330	EXB38V220J	RESISTOR ARRAY	
R1331	ERJ6GEYJ331	M 330 OHM,J,1/10W	
R1332	ERJ6ENF1001	M 1KOHM, 1/10W	
R1333	ERJ6ENF1001	M 1KOHM, 1/10W	
R1334	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1335	EXB38V560J	RESISTOR ARRAY	
R1336	ERJ3GEYJ102	M 10K OHM,J,1/16W	
R1337	EXB38V560J	RESISTOR ARRAY	
R1338	EXB38V560J	RESISTOR ARRAY	
R1339	EXB38V560J	RESISTOR ARRAY	
R1340	EXB38V560J	RESISTOR ARRAY	
R1341	EXB38V560J	RESISTOR ARRAY	
R1342	EXB38V560J	RESISTOR ARRAY	
R1345	EXB38V560J	RESISTOR ARRAY	
R1346	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1347	ERJ3GEYJ105	M 1M OHM,J,1/16W	
R1353	ERJ6GEYJ331	M 330 OHM,J,1/10W	
R1354	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1356	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1357	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1359	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1360	ERJ3GEYJ105	M 1M OHM,J,1/16W	
R1361	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1362	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1366	ERJ3GEY0R00	M 0 OHM, 1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1367	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1368	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1369	ERJ6ENF1243	M 124KOHM, 1/10W	
R1373	EXB38V220J	RESISTOR ARRAY	
R1374	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1375	EXB38V220J	RESISTOR ARRAY	
R1380	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1382	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1383	ERJ3GEYJ822	M 8.2KOHM,J,1/16W	
R1385	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1386	ERJ3GEYJ124	M 120KOHM,J,1/16W	
R1387	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1388	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1389	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1393	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1394	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1395	ERJ3GEYJ272	M 2.7KOHMJ,J1/16W	
R1396	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1397	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1399	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1400	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1401	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1402	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1403	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1404	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1405	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1406	ERJ6GEYJ221	M 220 OHM,J,1/10W	
R1407	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1409	ERJ3GEYJ272	M 2.7KOHMJ,J1/16W	
R1411	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1412	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1415	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1416	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1417	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1420	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1421	EXB38V103J	RESISTOR ARRAY	
R1423	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1424	EXB38V220J	RESISTOR ARRAY	
R1425	EXB38V220J	RESISTOR ARRAY	
R1426	EXB38V220J	RESISTOR ARRAY	
R1427	EXB38V220J	RESISTOR ARRAY	
R1428	EXB38V220J	RESISTOR ARRAY	
R1429	EXB38V220J	RESISTOR ARRAY	
R1431	EXB38V103J	RESISTOR ARRAY	
R1432	ERJ6GEYJ331	M 330 OHM,J,1/10W	
R1433	ERJ6GEYJ331	M 330 OHM,J,1/10W	
R1435	EXB38V103J	RESISTOR ARRAY	
R1436	EXB38V220J	RESISTOR ARRAY	
R1439	EXB38V103J	RESISTOR ARRAY	
R1440	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1441	EXB38V103J	RESISTOR ARRAY	
R1447	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1449	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1450	ERJ3GEYJ220	M 22 OHM,J,1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1451	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1452	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1453	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1454	ERJ3GEYJ471	M 470 OHM,J,1/16W	
R1455	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1456	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1457	ERJ6GEYJ331	M 330 OHM,J,1/10W	
R1458	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1459	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1460	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1461	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1462	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1463	EXB38V220J	RESISTOR ARRAY	
R1464	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1465	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1466	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1467	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1468	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1470	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1471	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1472	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1473	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1475	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1476	ERJ6GEYJ560	M 56 OHM,J,1/10W	
R1477	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1478	ERJ3GEYJ471	M 470 OHM,J,1/16W	
R1479	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1480	ERJ6GEYJ560	M 56 OHM,J,1/10W	
R1481	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1482	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1483	ERJ6GEYJ560	M 56 OHM,J,1/10W	
R1491	EXB38V220J	RESISTOR ARRAY	
R1492	EXB38V220J	RESISTOR ARRAY	
R1493	EXB38V220J	RESISTOR ARRAY	
R1494	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1496	EXB38V220J	RESISTOR ARRAY	
R1497	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1500	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1501	ERJ6ENF2202	M 2.2KOHM, 1/10W	
R1502	ERJ3GEYJ471	M 470 OHM,J,1/16W	
R1503	ERJ6ENF2202	M 2.2KOHM, 1/10W	
R1504	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1508	EXB38VR000	RESISTOR ARRAY	
R1509	EXB38V220J	RESISTOR ARRAY	
R1510	EXB38V102J	RESISTOR ARRAY	
R1511	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1512	EXB38VR000	RESISTOR ARRAY	
R1513	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1516	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1517	EXB38V220J	RESISTOR ARRAY	
R1518	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1519	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1520	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1521	EXB38V220J	RESISTOR ARRAY	

Ref. No.	Part No.	Part Name & Description	Remarks
R1522	ERJ6GEYJ470	M 47 OHM,J,1/10W	
R1523	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1524	EXB38V220J	RESISTOR ARRAY	
R1525	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1526	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1527	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1528	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1529	EXB38V220J	RESISTOR ARRAY	
R1531	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1532	EXB38V220J	RESISTOR ARRAY	
R1534	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1536	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1537	EXB38V220J	RESISTOR ARRAY	
R1538	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1539	EXB38V220J	RESISTOR ARRAY	
R1541	EXB38V220J	RESISTOR ARRAY	
R1542	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1543	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1544	EXB38V220J	RESISTOR ARRAY	
R1545	EXB38V220J	RESISTOR ARRAY	
R1546	EXB38V220J	RESISTOR ARRAY	
R1547	EXB38V220J	RESISTOR ARRAY	
R1548	EXB38V220J	RESISTOR ARRAY	
R1549	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1550	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1551	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1561	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1578	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1579	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1580	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1659	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1660	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1661	ERJ3GEYJ681	M 680 OHM,J,1/16W	
R1662	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1700	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1701	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1702	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1705	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1709	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1710	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1711	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1712	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1713	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1714	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1715	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1716	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1717	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1718	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1719	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1720	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1721	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1722	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1723	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1724	ERJ3GEYJ220	M 22 OHM,J,1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1725	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1726	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1727	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1728	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1729	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1730	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1731	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1732	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1733	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	
R1734	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	
R1735	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	
R1736	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	
R1737	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	
R1738	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	
R1739	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1740	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1741	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1742	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1743	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1744	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1745	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1746	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1747	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1748	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1749	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1750	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1751	ERJ6GEYJ3R3	M3.3OHM,J, 1/10W	
R1752	ERJ6GEYJ3R3	M3.3OHM,J, 1/10W	
R1753	ERJ6GEYJ3R3	M3.3OHM,J, 1/10W	
R1754	ERJ6GEYJ3R3	M3.3OHM,J, 1/10W	
R1755	ERJ6GEYJ3R3	M3.3OHM,J, 1/10W	
R1756	ERJ6GEYJ3R3	M3.3OHM,J, 1/10W	
R1757	ERJ6GEYJ3R3	M3.3OHM,J, 1/10W	
R1758	ERJ6GEYJ3R3	M3.3OHM,J, 1/10W	
R1759	ERJ6GEYJ3R3	M3.3OHM,J, 1/10W	
R1760	ERJ6GEYJ3R3	M3.3OHM,J, 1/10W	
R1761	ERJ6GEYJ3R3	M3.3OHM,J, 1/10W	
R1762	ERJ6GEYJ3R3	M3.3OHM,J, 1/10W	
R1763	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1764	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1765	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1766	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1767	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1768	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1769	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1770	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1771	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1772	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1773	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1774	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1775	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1776	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1777	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1778	ERJ3GEYJ220	M 22 OHM,J,1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1779	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1780	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1781	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1782	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1783	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1784	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1785	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1786	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1787	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1788	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1789	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1790	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1791	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1792	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1793	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1794	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1795	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1796	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1797	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1798	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1799	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1800	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1801	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R2002	ERJ6ENF5601	M 5.6KOHM, 1/10W	
R2003	ERJ6ENF1501	M 1.5KOHM, 1/10W	
R2004	ERJ6ENF1501	M 1.5KOHM, 1/10W	
R2005	ERJ6ENF2701	M 2.7KOHM, 1/10W	
R2006	ERJ6ENF6801	M 6.8KOHM, 1/10W	
R2007	ERJ6ENF3302	M 33KOHM, 1/10W	
R2008	ERJ6ENF5601	M 5.6KOHM, 1/10W	
R2009	ERJ6ENF1001	M 1KOHM, 1/10W	
R2010	ERJ6ENF1801	M 1.8KOHM, 1/10W	
R2011	ERJ6ENF2701	M 2.7KOHM, 1/10W	
R2012	ERJ6ENF6801	M 6.8KOHM, 1/10W	
R2013	ERJ6ENF3302	M 33KOHM, 1/10W	
R2014	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R2015	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R2022	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R2023	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R2028	ERJ3GEYJ100	M 10 OHM,J,1/16W	
R2029	ERJ3GEYJ100	M 10 OHM,J,1/16W	
R3000	ERJ6GEYJ470	M 47 OHM,J,1/10W	
R3001	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R3004	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R3005	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R3006	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R3007	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R3008	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R3009	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R9762	ERJ3GEYJ100	M 10 OHM,J,1/16W	
[CAPACITORS]			
C1001	ECUX1A105ZF	C 1UF, Z, 10V	

Ref. No.	Part No.	Part Name & Description	Remarks
C1002	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1003	ECUX1A105ZF	C 1UF, Z, 10V	
C1004	ECJ1XB1H472K	C 0.47UF, 50V	
C1007	EEVHB0J330	E 33UF, 6.3V	
C1008	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1009	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1010	EEVHB1C101	E 100UF, 16V	
C1011	EEVHB0J330	E 33UF, 6.3V	
C1012	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1013	ECUX1H102JCV	C 1000PF, J, 50V	
C1015	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1016	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1023	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1025	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1030	ECJ2XF1C474Z	C 0.47UF, Z, 16V	
C1031	ECJ2XF1C474Z	C 0.47UF, Z, 16V	
C1032	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C1033	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1034	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1035	ECUX1H080CCV	C 8PF, 50V	ECJ1XC1H080C
C1036	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1037	ECJ1XB1C223K	C0.022UF, K. 16V	
C1038	EEVHB0J101	E 100UF, 6.3V	EEVHB0J101P
C1039	ECJ3XB0J106M	C 10UF, 6.3V	
C1040	ECJ3XB0J106M	C 10UF, 6.3V	
C1041	ECJ3XB0J106M	C 10UF, 6.3V	
C1042	EEVHB0J101	E 100UF, 6.3V	EEVHB0J101P
C1043	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1044	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1045	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1046	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1047	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1048	ECUX1H120JCV	C 12OF, 50V	
C1049	ECUX1H120JCV	C 12OF, 50V	
C1051	ECUX1H220JCV	C 22PF, 50V	ECJ1XC1H220J
C1052	ECUX1H220JCV	C 22PF, 50V	ECJ1XC1H220J
C1053	ECJ1XF1A105Z	C 1UF, Z, 10V	
C1055	ECJ1XF1A105Z	C 1UF, 10V	
C1059	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1060	ECJ1XC1H681J	C 680PF, 50V	
C1062	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1063	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1064	ECJ1XF1A105Z	C 1UF, Z, 10V	
C1065	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1066	ECJ3XB0J106M	C 10UF, 6.3V	
C1067	EEVHB0J101	E 100UF, 6.3V	EEVHB0J101P
C1068	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C1069	EEVHB0J101	E 100UF, 6.3V	
C1070	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1071	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1072	ECJ2XB1H103K	C 0.01UF, K, 50V	
C1073	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C1074	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1075	ECUX1C104ZFV	C 0.1UF, Z, 16V	

Ref. No.	Part No.	Part Name & Description	Remarks
C1076	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1077	EEVHB0J330	E 33UF, 6.3V	
C1078	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1079	EEVHB0J330	E 33UF, 6.3V	
C1080	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1081	EEVHB0J330	E 33UF, 6.3V	
C1082	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1083	EEVHB0J330	E 33UF, 6.3V	
C1084	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1085	EEVHB0J330	E 33UF, 6.3V	
C1086	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1087	EEVHB0J330	E 33UF, 6.3V	
C1127	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1128	EEVHB1C221	E 220UF, 16V	
C1129	EEVHB1C221	E 220UF, 16V	
C1130	EEVHB1C221	E 220UF, 16V	
C1131	ECUX1A105ZF	C 1UF, Z, 10V	
C1132	ECUX1A105ZF	C 1UF, Z, 10V	
C1133	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1134	EEVHB0J330	E 33UF, 6.3V	
C1135	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1136	EEVHB0J330	E 33UF, 6.3V	
C1137	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1138	EEVHB0J330	E 33UF, 6.3V	
C1139	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1140	EEVHB0J330	E 33UF, 6.3V	
C1141	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1142	EEVHB0J330	E 33UF, 6.3V	
C1143	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1144	EEVHB0J330	E 33UF, 6.3V	
C1146	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1147	ECUX1A105ZF	C 1UF, Z, 10V	
C1148	ECUX1A105ZF	C 1UF, Z, 10V	
C1149	ECUX1A105ZF	C 1UF, Z, 10V	
C1150	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1151	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1152	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1153	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1154	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1155	ECUX1H102JCV	C 1000PF, J, 50V	
C1156	EEVHB1E330	E 33UF, 25V	
C1157	ECUX1A105ZF	C 1UF, Z, 10V	
C1158	ECUX1H102JCV	C 1000PF, J, 50V	
C1159	ECUX1A105ZF	C 1UF, Z, 10V	
C1160	ECUX1A105ZF	C 1UF, Z, 10V	
C1161	EEVHB1C100	E 10UF, 16V	
C1162	EEVHB1C100	E 10UF, 16V	
C1164	ECUX1H102JCV	C 1000PF, J, 50V	
C1165	EEVHB1E330	E 33UF, 25V	
C1166	EEVHB1C100	E 10UF, 16V	
C1167	EEVHB1C100	E 10UF, 16V	
C1168	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1169	ECUX1H102JCV	C 1000PF, J, 50V	
C1170	ECJ3XF1C475Z	C 4.7UF, Z, 16V	

Ref. No.	Part No.	Part Name & Description	Remarks
C1171	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1172	EEVHB1E330	E 33UF, 25V	
C1173	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C1174	EEVHB0J101	E 100UF, 6.3V	EEVHB0J101P
C1175	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1177	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1178	EEVHB0J470	E 47UF, 6.3V	
C1179	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1180	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1181	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1182	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1183	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1184	ECJ1XF1A105Z	C 1UF, Z, 10V	
C1185	EEVHB0J470	E 47UF, 6.3V	
C1186	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1187	ECJ1XF1A105Z	C 1UF, Z, 10V	
C1188	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1189	ECUX1H473ZFV	C 0.047UF, Z, 50V	ECJ1XF1H473Z
C1190	ECUX1H473ZFV	C 0.047UF, Z, 50V	ECJ1XF1H473Z
C1191	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1192	ECUX1H102KBV	C 1000PF, K, 50V	
C1193	ECUX1H473ZFV	C 0.047UF, Z, 50V	ECJ1XF1H473Z
C1194	ECUX1H102KBV	C 1000PF, K, 50V	
C1195	ECUX1H473ZFV	C 0.047UF, Z, 50V	ECJ1XF1H473Z
C1196	ECUX1H473ZFV	C 0.047UF, Z, 50V	ECJ1XF1H473Z
C1197	ECUX1H473ZFV	C 0.047UF, Z, 50V	ECJ1XF1H473Z
C1198	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1199	EEVHB1C100	E 10UF, 16V	
C1200	EEVHB0J101	E 100UF, 6.3V	EEVHB0J101P
C1201	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1202	ECUX1H151JCV	C 150PF, J, 50V	ECJ1XC1H151J
C1205	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1206	ECUX1H472KBV	C 0.47UF, 50V	
C1207	ECUX1A105ZF	C 1UF, Z, 10V	
C1208	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1209	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C1210	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C1211	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C1212	ECJ1XF1A105Z	C 1UF, Z, 10V	
C1213	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C1214	ECUX1H392KBV	C 3900PF, K, 50V	
C1215	ECUX1C393KBV	C 0.039UF, K, 16V	
C1216	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1217	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C1218	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1219	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1220	ECJ2XC1H391J	C 390PF, J, 50V	
C1221	ECUX1A105ZF	C 1UF, Z, 10V	
C1222	EEVHB1C100	E 10UF, 16V	
C1223	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1224	ECUX1H181JCV	C 180PF, 50V	ECJ1XC1H181J
C1225	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1226	ECJ1XF1A105Z	C 1UF, Z, 10V	
C1227	ECUX1C104ZFV	C 0.1UF, Z, 16V	

Ref. No.	Part No.	Part Name & Description	Remarks
C1228	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1229	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1230	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1231	ECJ1XF1A105Z	C 1UF, Z, 10V	
C1232	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1233	ECUX1H150JCV	C 15PF, J, 50V	ECJ1XC1H150J
C1234	ECUX1H150JCV	C 15PF, J, 50V	ECJ1XC1H150J
C1235	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1242	EEVHB0J470	E 47UF, 6.3V	
C1243	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1244	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1245	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1246	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1247	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1248	EEVHB0G101	E 100UF, 4V	
C1249	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1250	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1251	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1252	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1253	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1254	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1255	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1256	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1257	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1258	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1259	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1260	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1261	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1262	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1263	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1264	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1265	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1266	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1267	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1268	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1269	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1270	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1271	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1272	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1273	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1274	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1275	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1276	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1277	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1278	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1279	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1280	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1281	ECUX1A105ZF	C 1UF, Z, 10V	
C1282	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1283	ECUX1C473KBV	C 0.047UF, Z, 50V	ECJ1XB1C473K
C1284	ECUX1C473KBV	C 0.047UF, Z, 50V	ECJ1XB1C473K
C1286	ECUX1A105ZF	C 1UF, Z, 10V	
C1287	ECUX1H473ZFV	C 0.047UF, Z, 50V	ECJ1XF1H473Z
C1288	ECUX1C104ZFV	C 0.1UF, Z, 16V	

Ref. No.	Part No.	Part Name & Description	Remarks
C1289	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1290	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1291	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1292	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1293	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1294	ECJ1XC1H101J	C 100PF, J, 50V	
C1295	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1296	ECUM1H471JCN	C 470PF, 50V	ECJ2XC1H471J
C1297	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1299	ECUX1H220JCV	C 22PF, 50V	ECJ1XC1H220J
C1300	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1301	ECUX1H220JCV	C 22PF, 50V	ECJ1XC1H220J
C1302	EEVHB0J470	E 47UF, 6.3V	
C1304	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1305	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1306	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1307	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1308	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1309	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1310	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1311	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1312	EEVHB0G101	E 100UF, 4V	
C1313	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C1314	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1315	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1316	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1317	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1318	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1319	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1320	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1322	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1323	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1324	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1325	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1326	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1327	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1328	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1329	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1330	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1331	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1332	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1333	EEVHB0G101	E 100UF, 4V	
C1337	EEVHB0J470	E 47UF, 6.3V	
C1338	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1339	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1340	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1341	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1342	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1343	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1344	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1345	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1346	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1347	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1348	ECUX1C104ZFV	C 0.1UF, Z, 16V	

Ref. No.	Part No.	Part Name & Description	Remarks
C1349	EEVHB0J470	E 47UF, 6.3V	
C1350	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1351	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1352	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1353	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1355	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1356	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1357	EEVHB1E4R7	E 4.7UF, 25V	
C1358	EEVHB1E4R7	E 4.7UF, 25V	
C1359	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1360	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1361	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1362	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1363	EEVHB1A101	E 100UF, 10V	
C1364	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1365	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1366	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1367	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1368	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1369	EEVHB1A221	E 220UF, 10V	
C1370	EEVHB0J101	E 100UF, 6.3V	EEVHB0J101P
C1371	EEVHB1E4R7	E 4.7UF, 25V	
C1372	EEVHB0J101	E 100UF, 6.3V	EEVHB0J101P
C1451	EEVHB0J330	E 33UF, 6.3V	
C1464	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1700	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1701	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1702	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1703	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1704	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1705	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1706	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1707	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1708	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1709	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1710	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1711	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1712	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1713	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1714	ECJ2XF1C105Z	C 1UF, Z, 16V	
C1715	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1716	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1717	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1718	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1719	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1720	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1721	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1722	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1723	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1724	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1725	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1726	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1727	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1728	ECJ1XF1E104Z	C 0.1UF, Z, 25V	

Ref. No.	Part No.	Part Name & Description	Remarks
C1729	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1730	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1731	EEVHB1E4R7	E 4.7UF, 25V	
C1732	EEVHB1E4R7	E 4.7UF, 25V	
C1733	EEVHB1E4R7	E 4.7UF, 25V	
C1734	ECJ2XF1C105Z	C 1UF, Z, 16V	
C1735	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1736	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1737	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1738	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1739	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1740	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1741	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1742	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1743	EEVHB1E4R7	E 4.7UF, 25V	
C1745	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1746	EEVHB1E330	E 33UF, 25V	
C1747	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1748	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1749	EEVHB1E330	E 33UF, 25V	
C1750	EEVHB1E330	E 33UF, 25V	
C1751	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1752	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1753	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1754	ECJ2XF1C105Z	C 1UF, Z, 16V	
C1755	ECJ2XF1C105Z	C 1UF, Z, 16V	
C1756	ECJ2XF1C105Z	C 1UF, Z, 16V	
C1757	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1758	EEVHB1A101	E 100UF, 10V	
C1759	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C1760	ECUX1H221JCV	C 220PF, J, 50V	ECJ1XC1H221J
C1761	EEFUD0J101R	CAPACITOR	
C1762	EEVHB0J101	E 100UF, 6.3V	EEVHB0J101P
C2001	EEVHB0J470	E 47UF, 6.3V	
C2002	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C3000	ECUX1C104ZFV	C 0.1UF, Z, 16V	
C3001	EEVHB0J470	E 47UF, 6.3V	
[OTHERS]			
A1	K1MN30B00087	30P CONNECTOR	
A2	K1MN30B00087	30P CONNECTOR	
A3	K1MN30B00087	30P CONNECTOR	
A4	K1KB05B00019	5P CONNECTOR	
A6	K1KA13B00031	13P CONNECTOR	
A7	TJSF43706	6P CONNECTOR	K1KA06B00096
A8	TJSF43706	6P CONNECTOR	K1KA06B00096
A9	TJS9A9060	2P CONNECTOR	K1KA02B00051
A11	TJS9A9060	2P CONNECTOR	K1KA02B00051
A15	TJS6A8780	3P CONNECTOR	K1KA03B00006
A17	TJS6A8780	3P CONNECTOR	K1KA03B00006
A18	TJS6A8780	3P CONNECTOR	K1KA03B00006
A19	TJS6A8780	3P CONNECTOR	K1KA03B00006
R1	TJSF43706	6P CONNECTOR	K1KA06B00096

Ref. No.	Part No.	Part Name & Description	Remarks
S1	TJSF43706	6P CONNECTOR	K1KA06B00096
JK1001	TJSF42904	CONNECTOR	K1CB204B0004
JK1002	K2HA101A0013	CONNECTOR	
JK1003	K2HA102A0019	CONNECTOR	
JK1004	K1FB115B0066	D-SUB 15P	
JK1005	K1FB115B0066	D-SUB 15P	
JK1006	TJS4A8390	CONNECTOR	K1FB109B0058
JS1001	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1002	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1003	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1004	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1010	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1011	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1012	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1013	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1014	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1015	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1016	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1017	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1018	ERJ3GEY0R00	M 0 OHM, 1/16W	
F101	K5Y632B00001	FUSE	⚠
F102	K5Y632B00001	FUSE	⚠
RM1001	B3RAD0000038	REMOTE CONTROL RECIVER	
RM3001	B3RAD0000038	REMOTE CONTROL RECIVER	
S2001	EVQPLHA15	SWITCH	
S2002	EVQPLHA15	SWITCH	
S2003	EVQPLHA15	SWITCH	
S2004	EVQPLHA15	SWITCH	
S2005	EVQPLHA15	SWITCH	
S2006	EVQPLHA15	SWITCH	
S2007	EVQPLHA15	SWITCH	
S2008	EVQPLHA15	SWITCH	
S2009	EVQPLHA15	SWITCH	
X1001	TSSA116	CRYSTAL	H0D162500002
X1002	H1A4405B0001	CRYSTAL	
X1003	H0J737400005	CRYSTAL	
X1005	TSSA124	CRYSTAL	H0J120500007
Z9601	G4F3E0000002	IGNITER	⚠
RTL	TNPA2361AB	CIRCUIT BOARD P	
RTL	TNPA2391	CIRCUIT BOARD S	
RTL	TNPA2400	CIRCUIT BOARD R	
RTL	TXANP01VJJ7	CIRCUIT BOARD A	
RTL	TXANP03VJJ8	CIRCUIT BOARD K	
RTL	TXANPBQPLPZ	CIRCUIT BOARD BQ	

16. Schematic Diagram for printing with A4 size

11 Schematic Diagram

Schematic Diagram for Model PT-LC75E / LC55E / U1X65 / U1S

Important Safety Notice

Components identified by the international symbol ⚠ have special characteristics important for safety.When replacing any c
specified ones.

Schematic Diagram for Model PT-LC75U /LC55U

IMPORTANT SAFETY NOTICE

THE SHADED AREA ON THIS SCHEMATIC DIAGRAM INCORPORATES SPECIAL FEATURES IMPORTANT FOR PROTE
HAZARDS.
WHEN SERVICING, IT IS ESSENTIAL THAT ONLY MANUFACTURER'S SPECIFIED PARTS BE USED FOR THE CRITIC/
THE SCHEMATIC.

Notes:

1. **Resistor**

   All the resistors are carbon 1/4W resistors, unless marked as follows:The unit of resistance is an OHM [Ω] (K=1 000 M=1 000

   ○ : Nonflammable
   ⊠ : Metal Oxide
   △ : Solid
   ◎ : Metal Film
   ⊠ : Wire Wound
   ⊗ : Fuse

2. **Capacitor**

   ⊗ : Temperature Compensation
   ⧺ : Electrolytic
   Ⓜ : Polyester
   NP ⧺ : Bipolar
   ⓜ : Metalized Polyester
   Ⓣ : Dipped Tantalum
   ⊠ : Polypropylene
   Ⓩ : Z-Type

3. **Coil**

   The unit of inductance is a μH, unless otherwise noted.

4. **Test Point**

   ● : Test Point

5. **Voltage Measurement**

   The voltage is measured by an electronic voltmeter receiving the colorbar signal when all the customer's controls are set to th

6. **Color code for the links between diagrams and circuit boards**

From/To		To/From	Color code
Block diagram	⟷	Schematic diagram	Magenta
Schematic diagram	⟷	Schematic diagram	Green
Schematic diagram	⟷	Circuit boards	Yellow
Schematic diagram	⟷	Waveforms	Cyan (Light blue)

7. **HOT and COLD indications**

   The power circuit board contains a circuit area using a separate power supply to isolate the ground connection. The circuit is c
   diagram. Take the precautions below:

8. **This schematic diagram is the latest at the time of printing and the subject to change without notice.**

Precautions:

1. NEVER touch the HOT part or the HOT and COLD parts at the same time, or you may get an electric shock.
2. NEVER short-circuit the HOT and COLD circuits, or the fuse may blow and the parts may break.
3. NEVER connect an instrument such oscilloscope to the HOT and COLD circuit simultaneously, or the fuse may blow.Connect the grou
4. MAKE SURE to unplug the power cord from the power outlet before removing the chassis.

U1X65 / U1S65

e

ety.When replacing any of these components, use only the manufacturer's

U

ICE

IPORTANT FOR PROTECTION FROM FIRE AND ELECTRICAL SHOCK

SED FOR THE CRITICAL COMPONENTS IN THE SHADED AREAS OF

M [Ω] (K=1 000 M=1 000 000).

er's controls are set to the standard condition.

nnection. The circuit is defined by HOT and COLD indications in the schematic

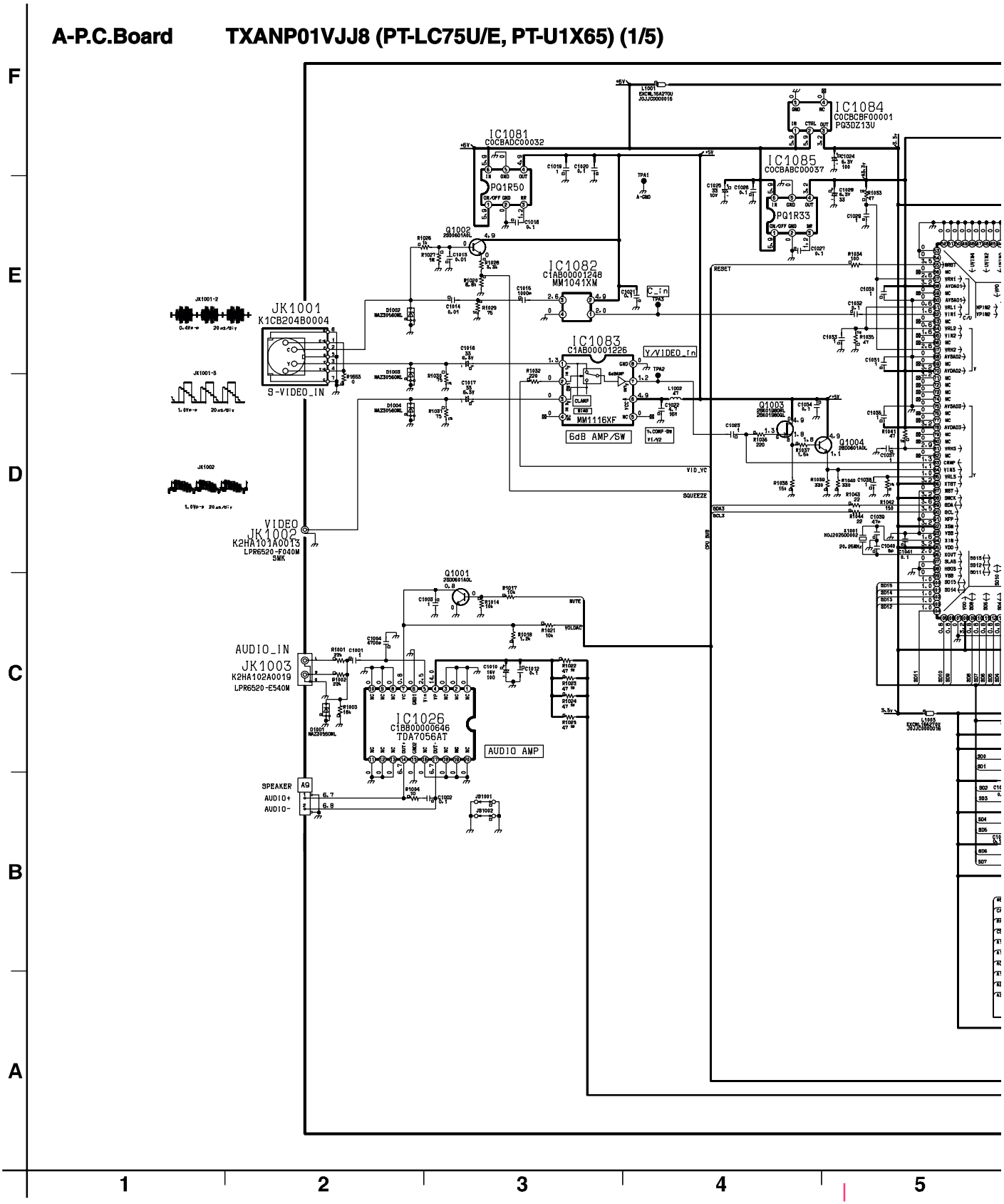
notice.

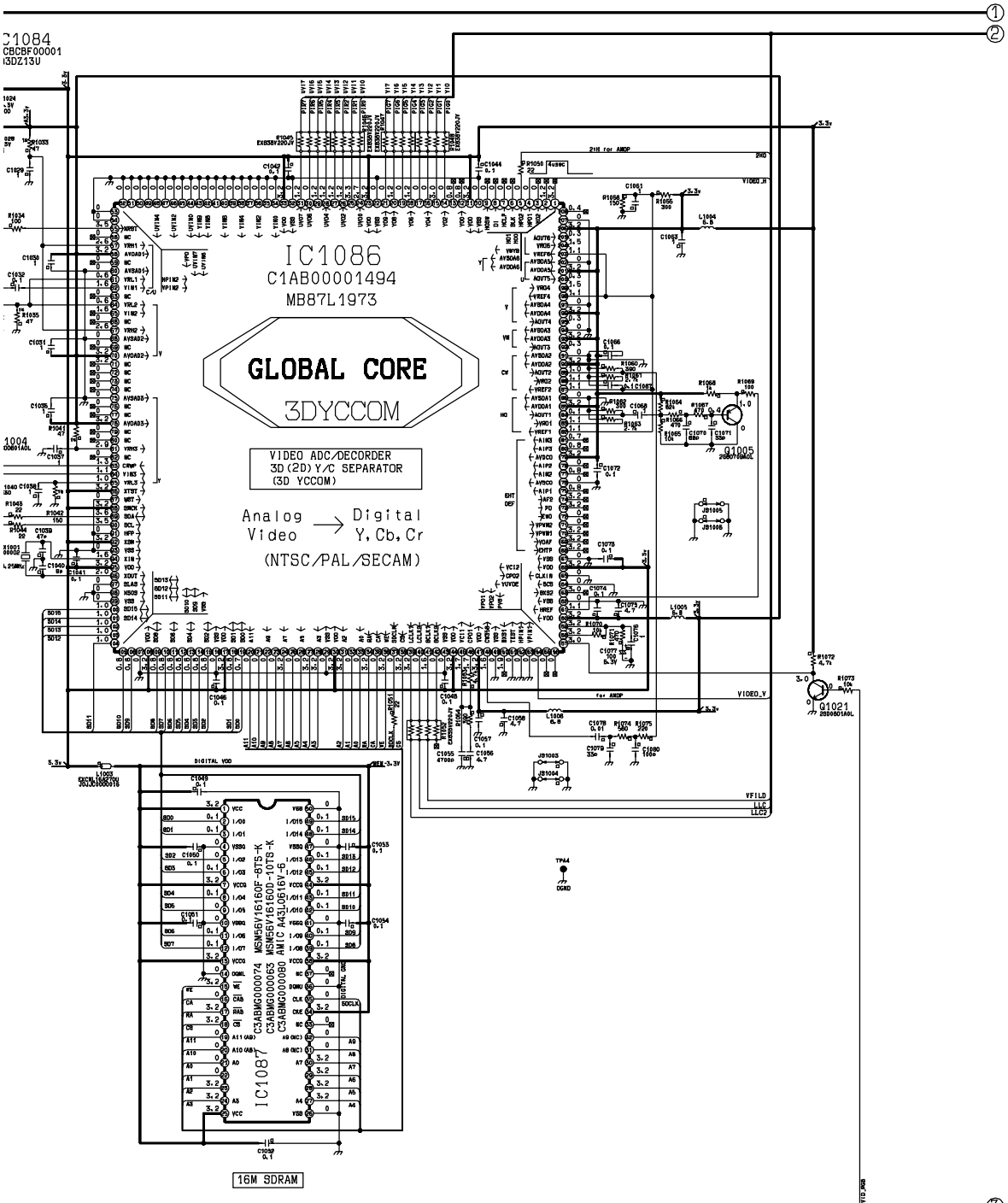
tric shock.

may blow.Connect the ground of instruments to the ground of the circuit being measured.

11.1. A-P.C.Board (PT-LC75U/E, PT-U1X65) (1/5)

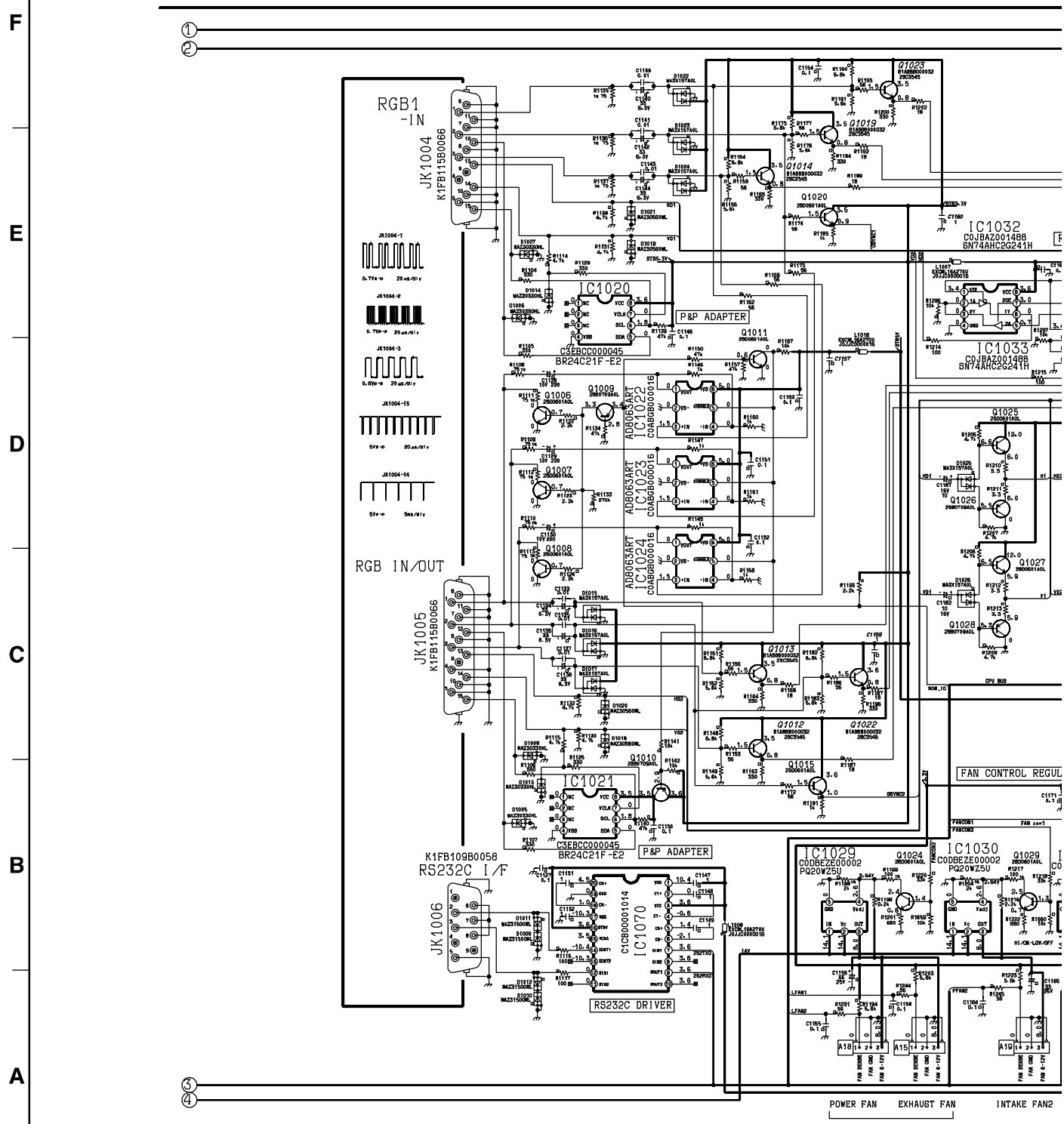
A-P.C.Board TXANP01VJJ8 (PT-LC75U/E, PT-U1X65) (1/5)

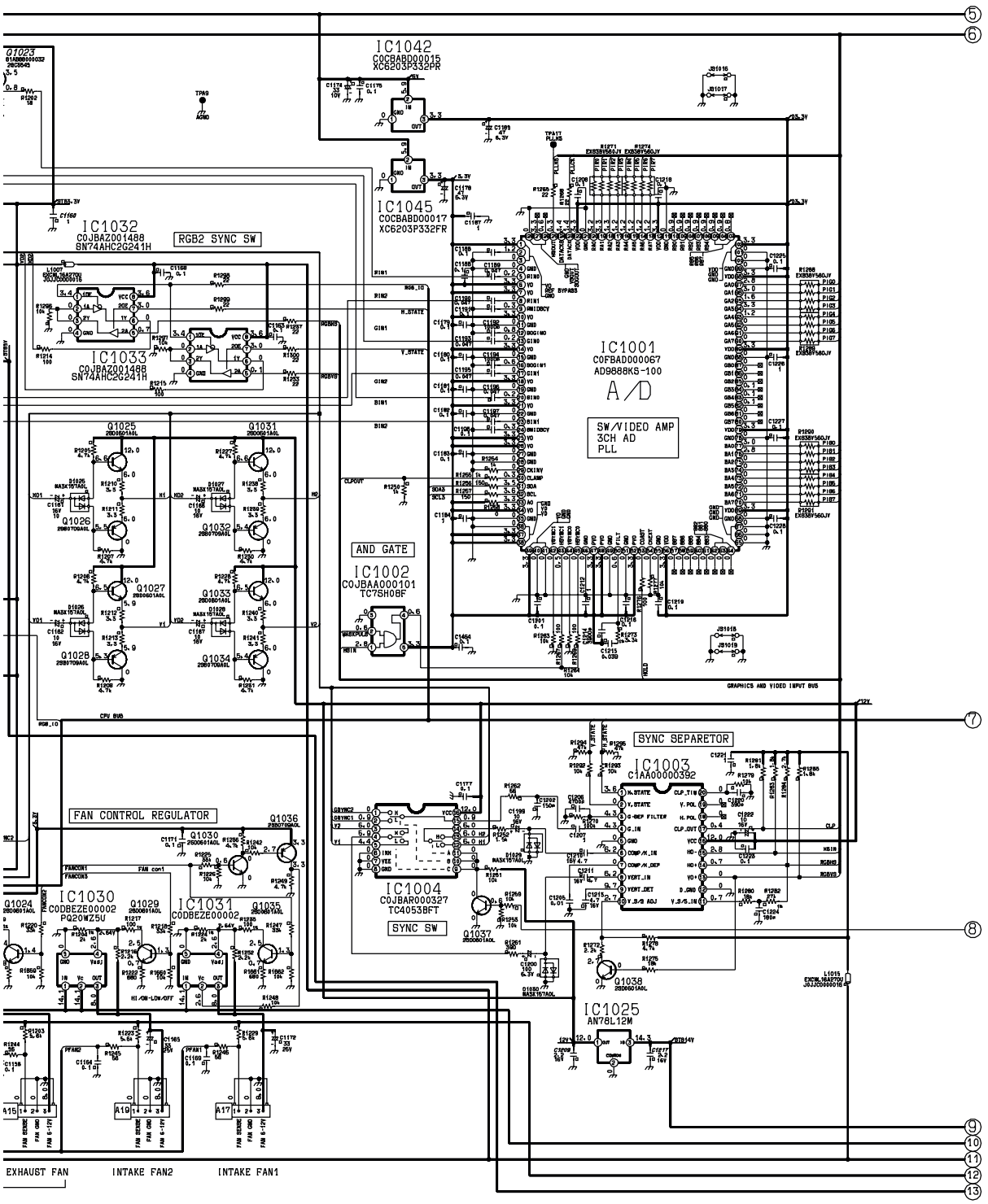



IC1086
C1AB00001494
MB87L1973
GLOBAL CORE
3DYCCOM
VIDEO ADC/DECORDER
3D(2D) Y/C SEPARATOR
(3D YCCOM)
Analog Video
Digital Y, Cb, Cr
(NTSC/PAL/SECAM)
IC1087
16M SDRAM

11.2. A-P.C.Board (PT-LC75U/E, PT-U1X65) (2/5)

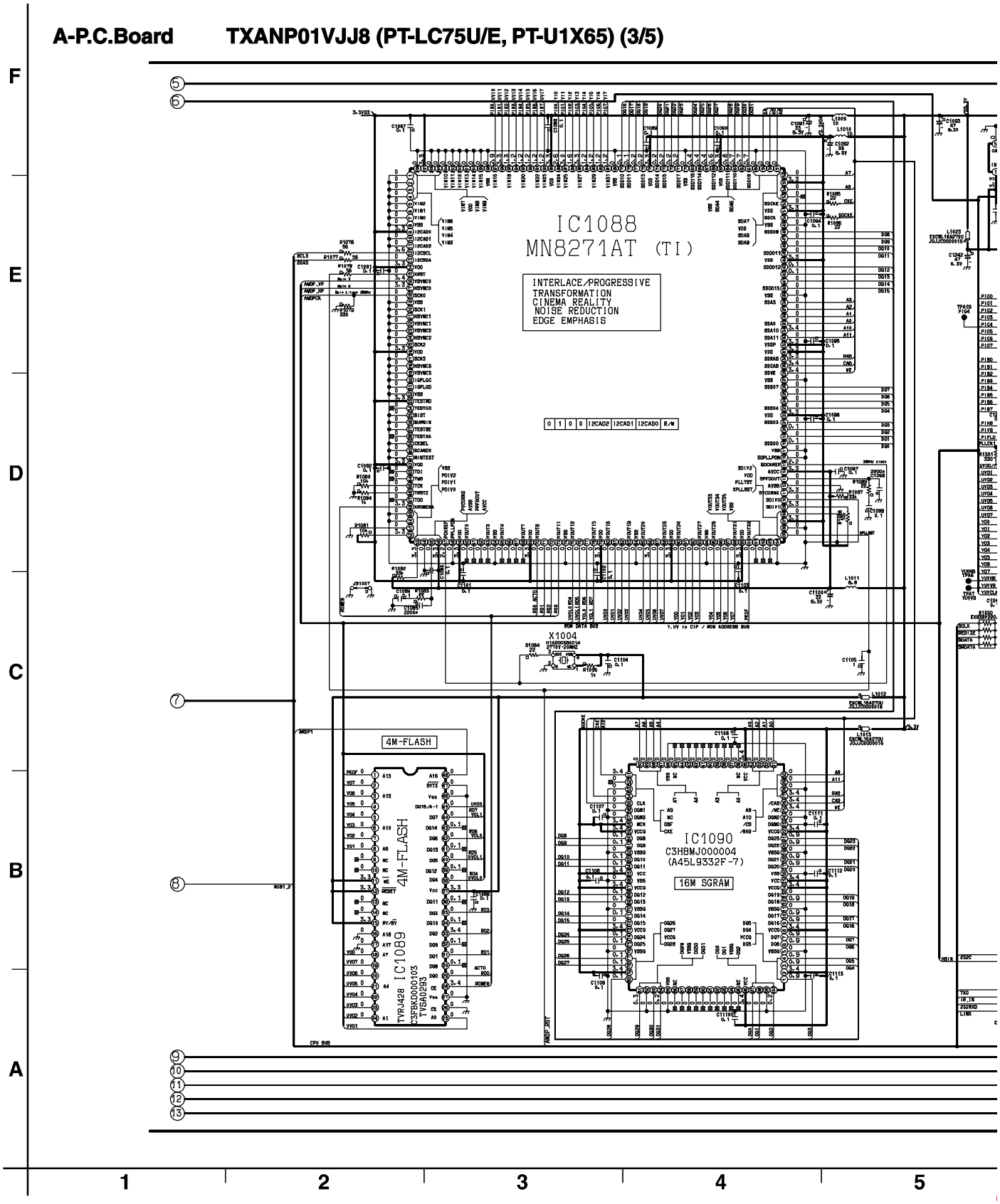
A-P.C.Board TXANP01VJJ8 (PT-LC75U/E, PT-U1X65) (2/5)

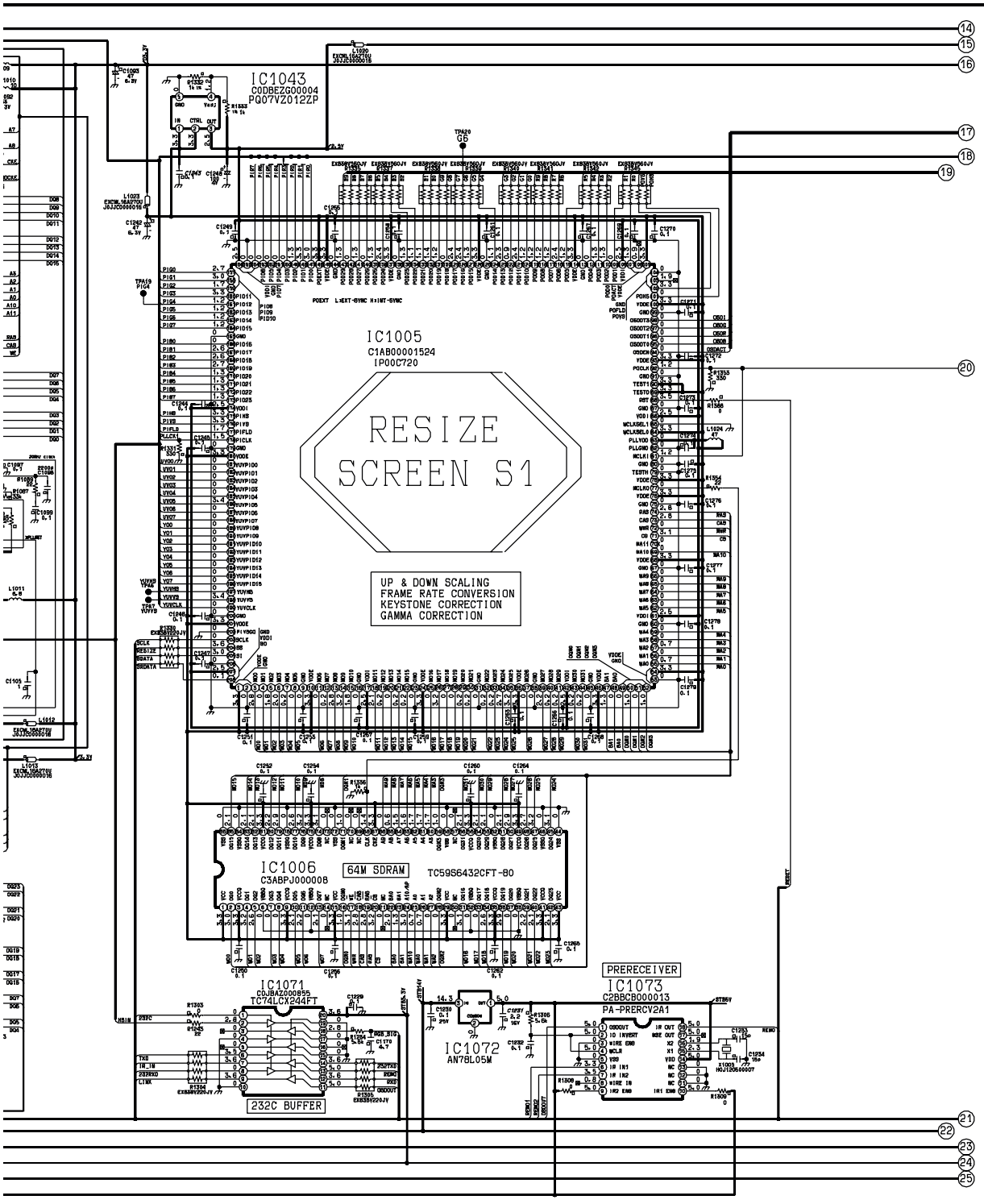



IC1042
C0CBABD00015
XC6203P332PR
IC1045
C0CBABD00017
XC6203P332FR
IC1032
C0JBAZ001488
SN74AHC2G241H
RGB2 SYNC SW
IC1033
C0JBAZ001488
SN74AHC2G241H
IC1001
C0FBAD000067
AD9888KS-100
A/D
SW/VIDEO AMP
3CH AD
PLL
AND GATE
IC1002
C0JBAA000101
TC7SH08F
GRAPHICS AND VIDEO INPUT BUS
SYNC SEPARETOR
IC1003
C1AA00000392
FAN CONTROL REGULATOR
IC1030
C0DBEZE00002
PQ20WZ5U
IC1031
C0DBEZE00002
IC1004
C0JBAR000327
TC4053BFT
SYNC SW
IC1025
AN78L12M
EXHAUST FAN
INTAKE FAN2
INTAKE FAN1

11.3. A-P.C.Board (PT-LC75U/E, PT-U1X65) (3/5)

A-P.C.Board TXANP01VJJ8 (PT-LC75U/E, PT-U1X65) (3/5)

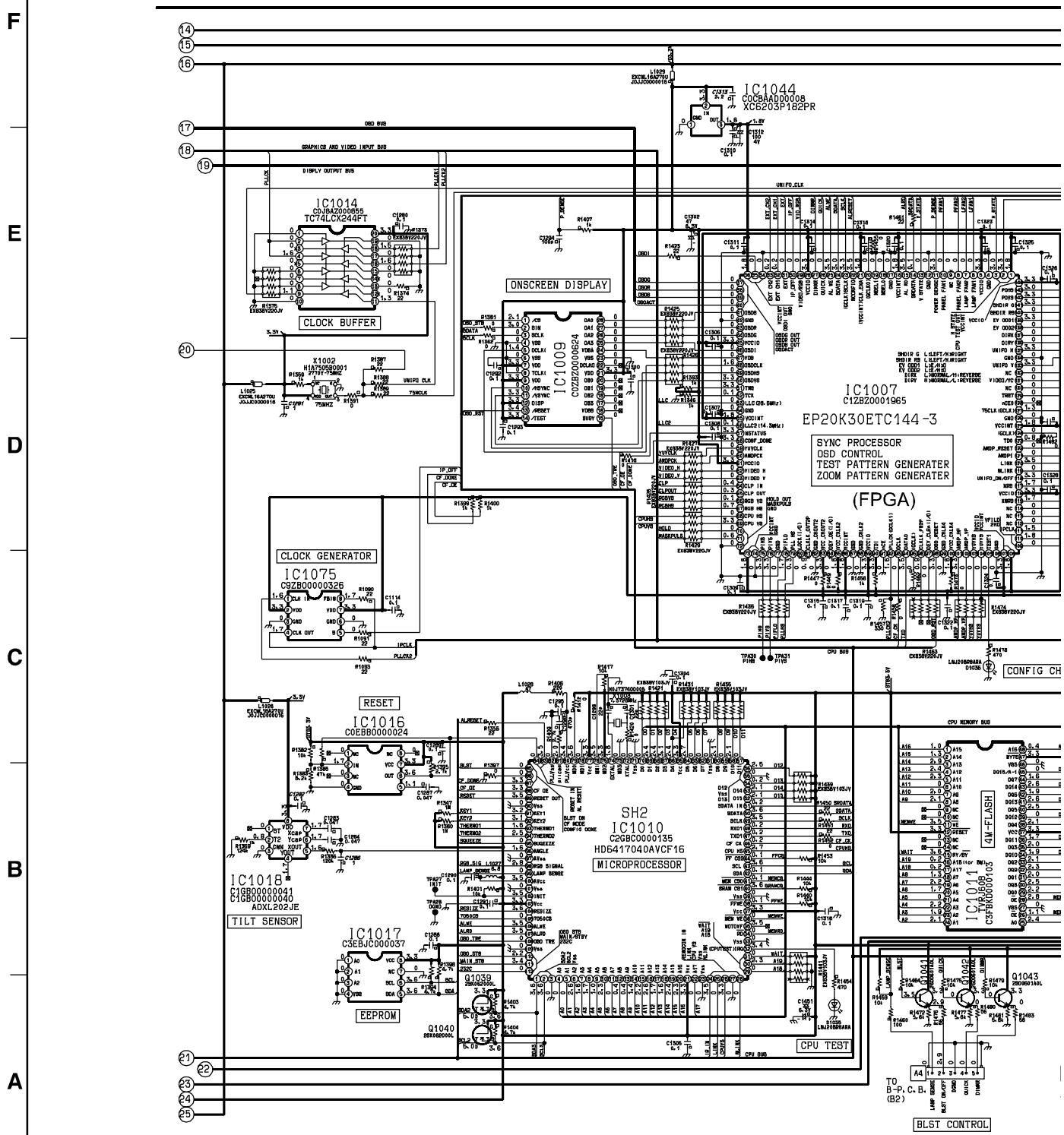


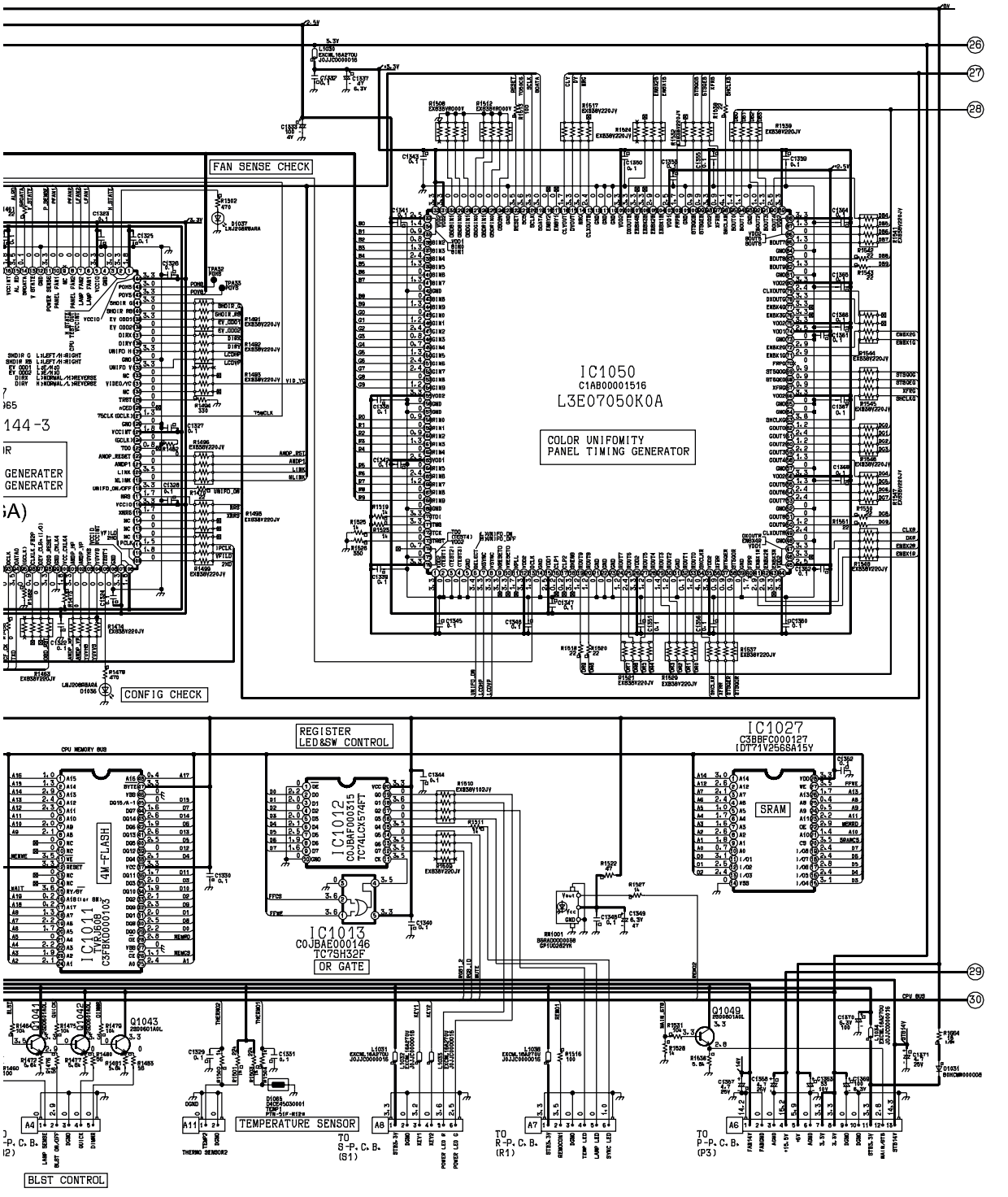

IC1043
C0DBEZG00004
PQ07VZ012ZP
IC1005
C1AB00001524
IP00C720
RESIZE
SCREEN S1
UP & DOWN SCALING
FRAME RATE CONVERSION
KEYSTONE CORRECTION
GAMMA CORRECTION
IC1006
C3ABPJ000008
64M SDRAM
TC59S6432CFT-80
IC1071
C0JBAZ000855
TC74LCX244FT
232C BUFFER
IC1072
AN78L05M
PRERECEIVER
IC1073
C2BBCB000013
PA-PRERCV2A1

5 6 7 8 9

11.4. A-P.C.Board (PT-LC75U/E, PT-U1X65) (4/5)

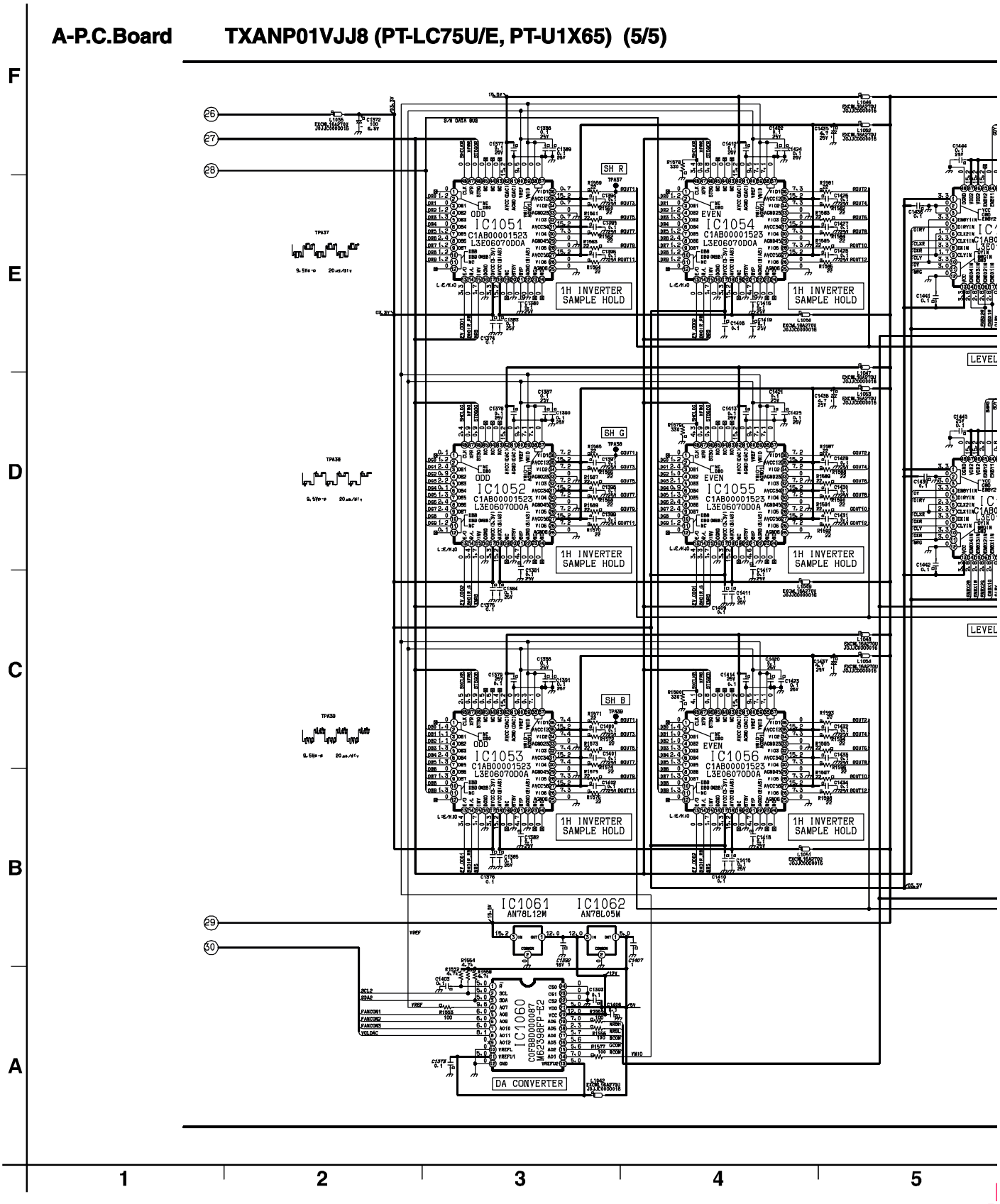
A-P.C.Board TXANP01VJJ8 (PT-LC75U/E, PT-U1X65) (4/5)

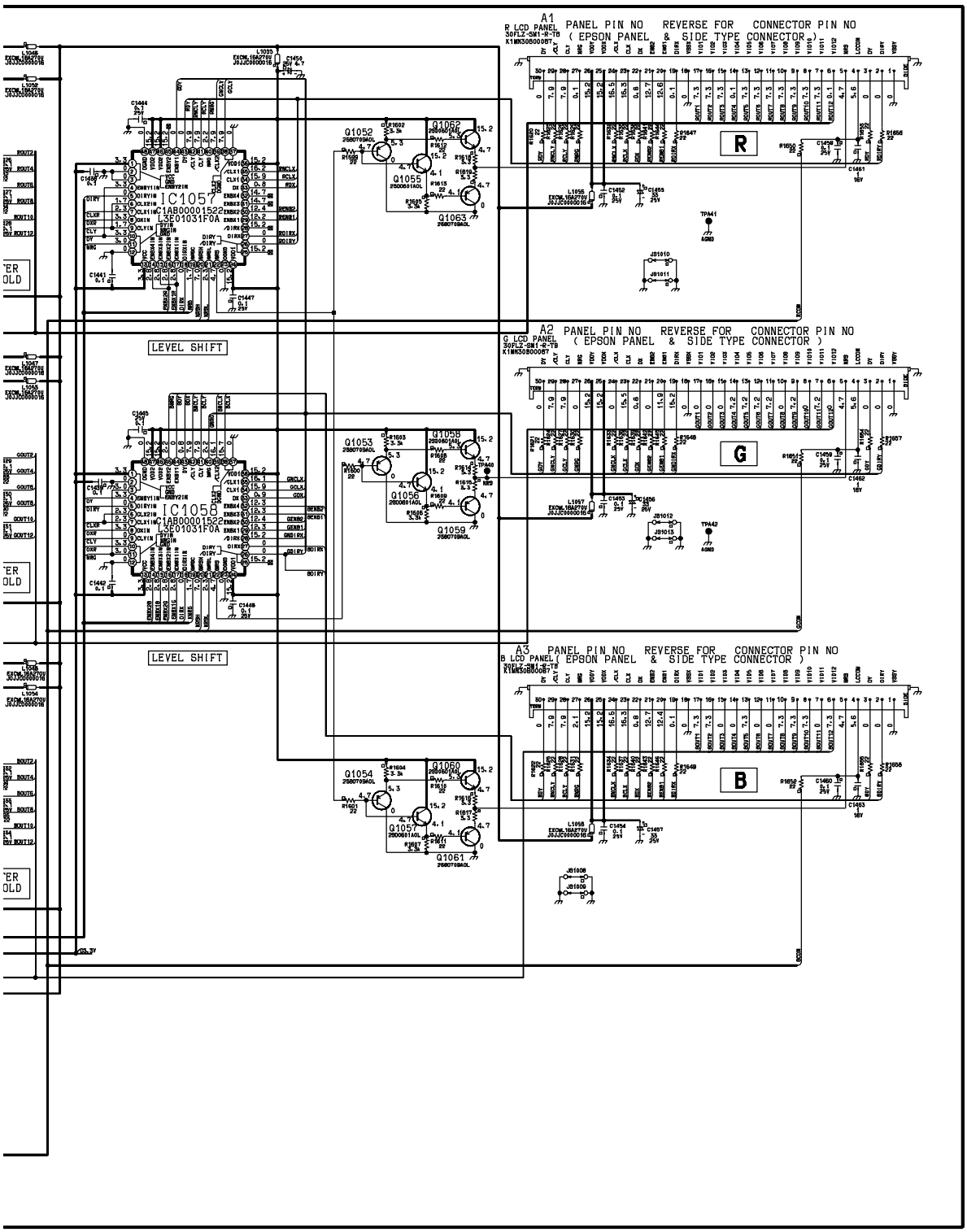



FAN SENSE CHECK
IC1050
C1AB00001516
L3E07050K0A
COLOR UNIFOMITY
PANEL TIMING GENERATOR
CONFIG CHECK
REGISTER
LED&SW CONTROL
IC1027
C3BBFC000127
IDT71V2556SA15Y
SRAM
4M-FLASH
IC1011
C5FBR0000105
IC1012
C0JBAF0003I5
TC74LCX574FT
IC1013
C0JBAE000146
TC7SH32F
OR GATE
TEMPERATURE SENSOR
BLST CONTROL
CPU BUS
CPU MEMORY BUS

11.5. A-P.C.Board (PT-LC75U/E, PT-U1X65) (5/5)

A-P.C.Board TXANP01VJJ8 (PT-LC75U/E, PT-U1X65) (5/5)

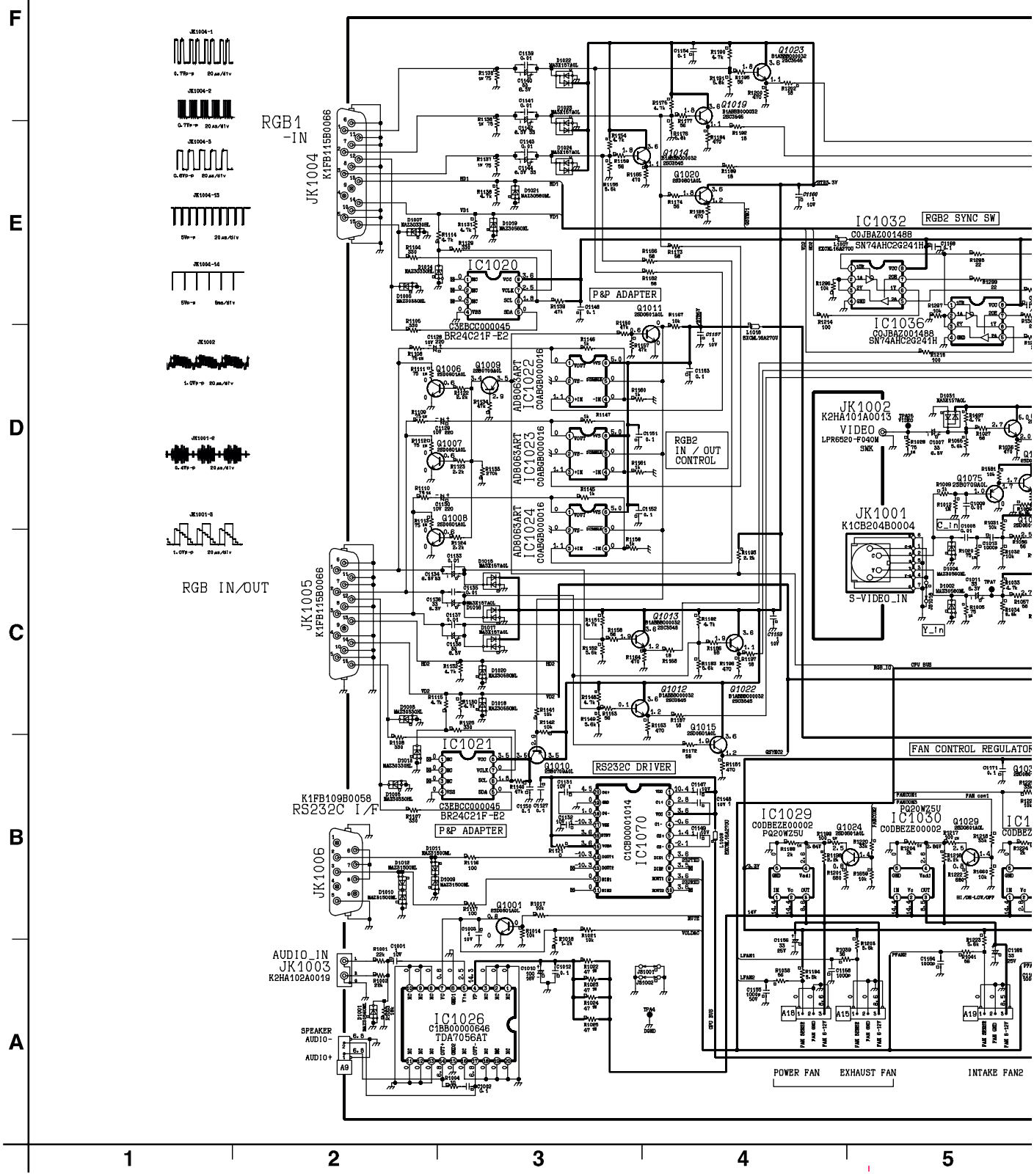


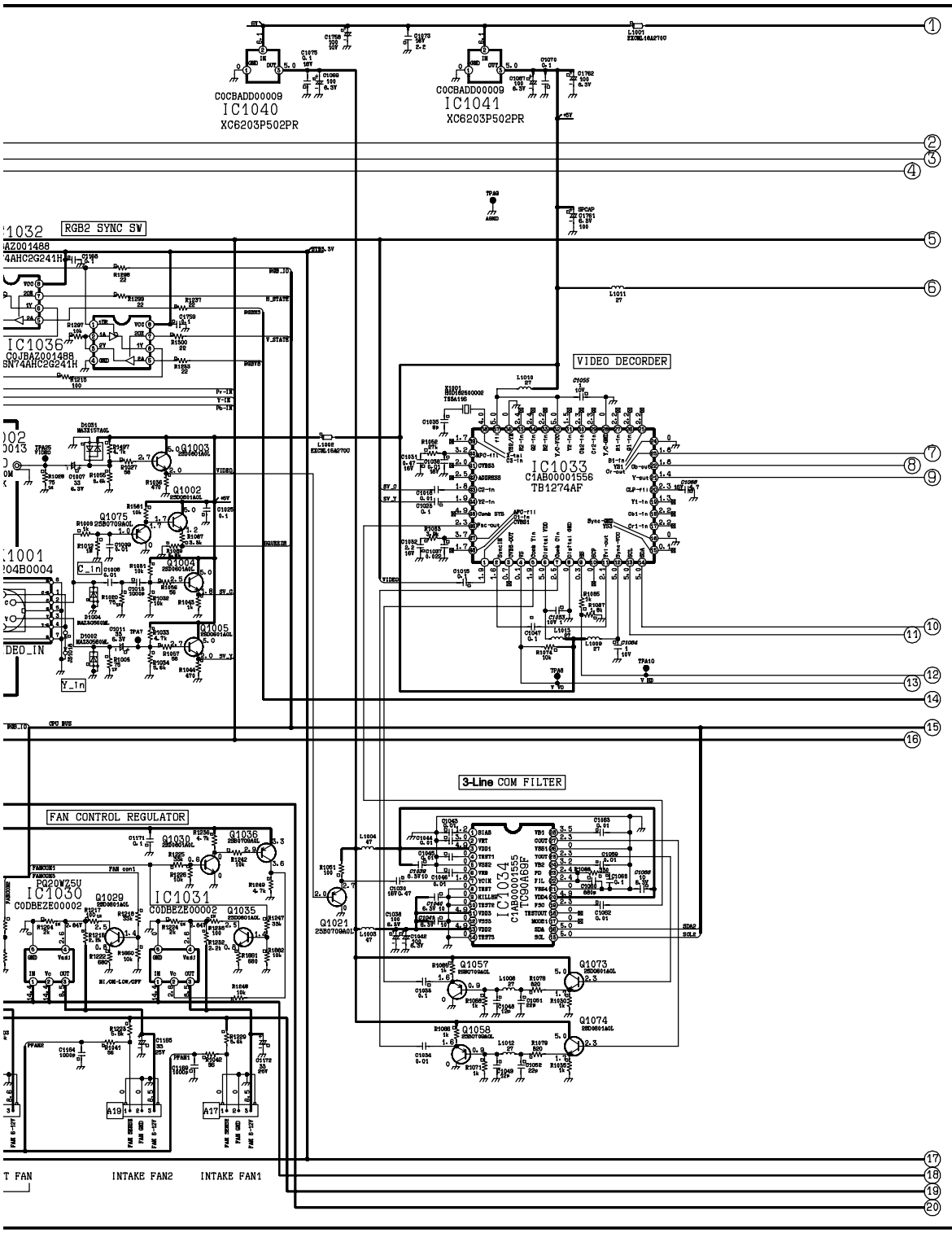

A1
R LCD PANEL
30FLZ-SM1-R-TB
K1WN30B00087
(EPSON PANEL SIDE TYPE CONNECTOR)
PANEL PIN NO REVERSE FOR CONNECTOR PIN NO
R
A2
G LCD PANEL
30FLZ-SM1-R-TB
K1WN30B00087
(EPSON PANEL & SIDE TYPE CONNECTOR)
PANEL PIN NO REVERSE FOR CONNECTOR PIN NO
G
A3
B LCD PANEL
30FLZ-SM1-R-TB
K1WN30B00087
(EPSON PANEL & SIDE TYPE CONNECTOR)
PANEL PIN NO REVERSE FOR CONNECTOR PIN NO
B
LEVEL SHIFT
LEVEL SHIFT
IC1057
IC1058
L3E01031F0A
C1AB0000152
Q1052
Q1053
Q1054
Q1055
Q1056
Q1057
Q1058
Q1059
Q1060
Q1061
Q1063
TP441
TP442
AGND

5 6 7 8 9

11.6. A-P.C.Board (PT-LC55U/E, PT-U1S65) (1/4)

A-P.C.Board TXANP01VJJ7 (PT-LC55U/E, PT-U1S65) (1/4)

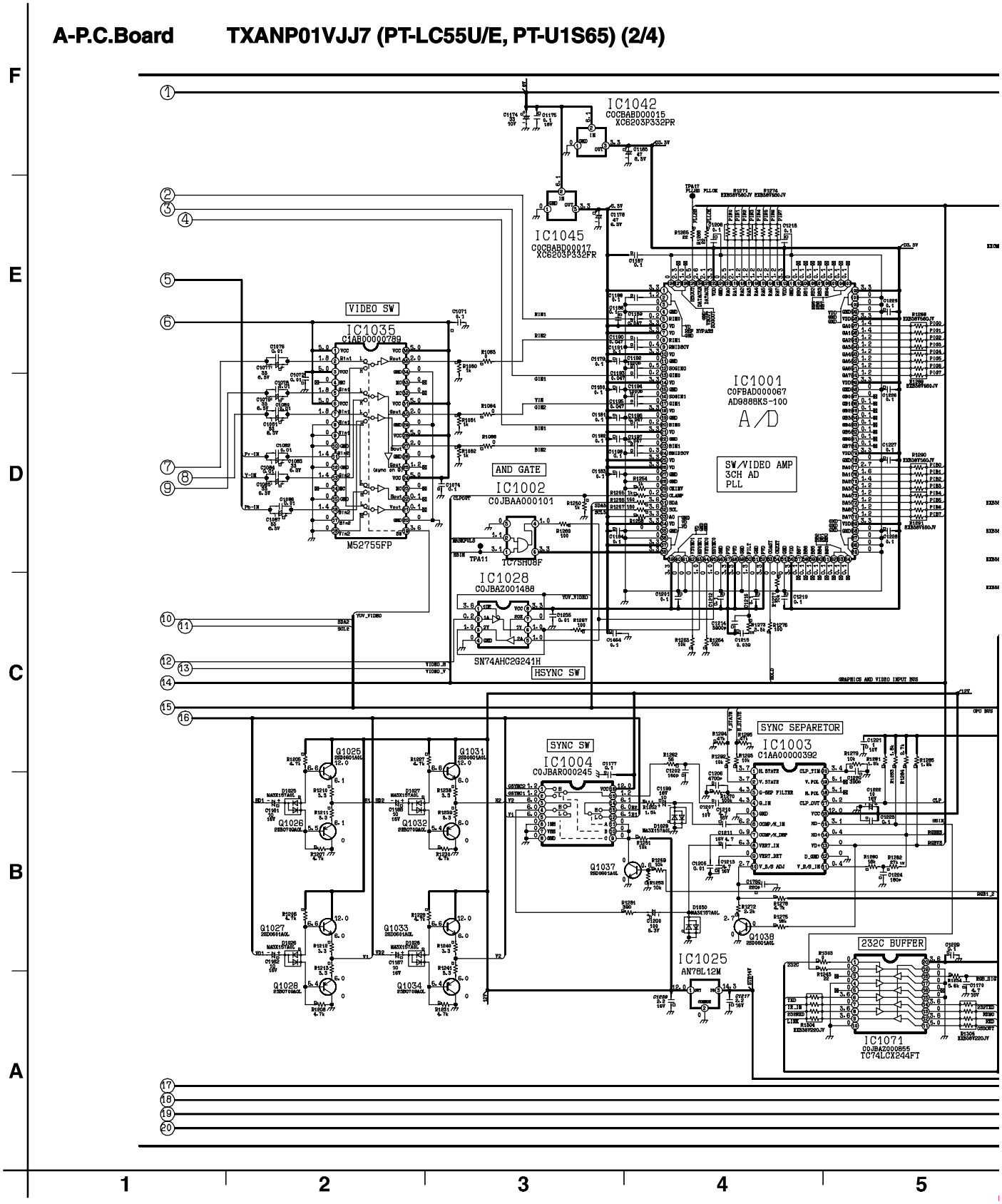


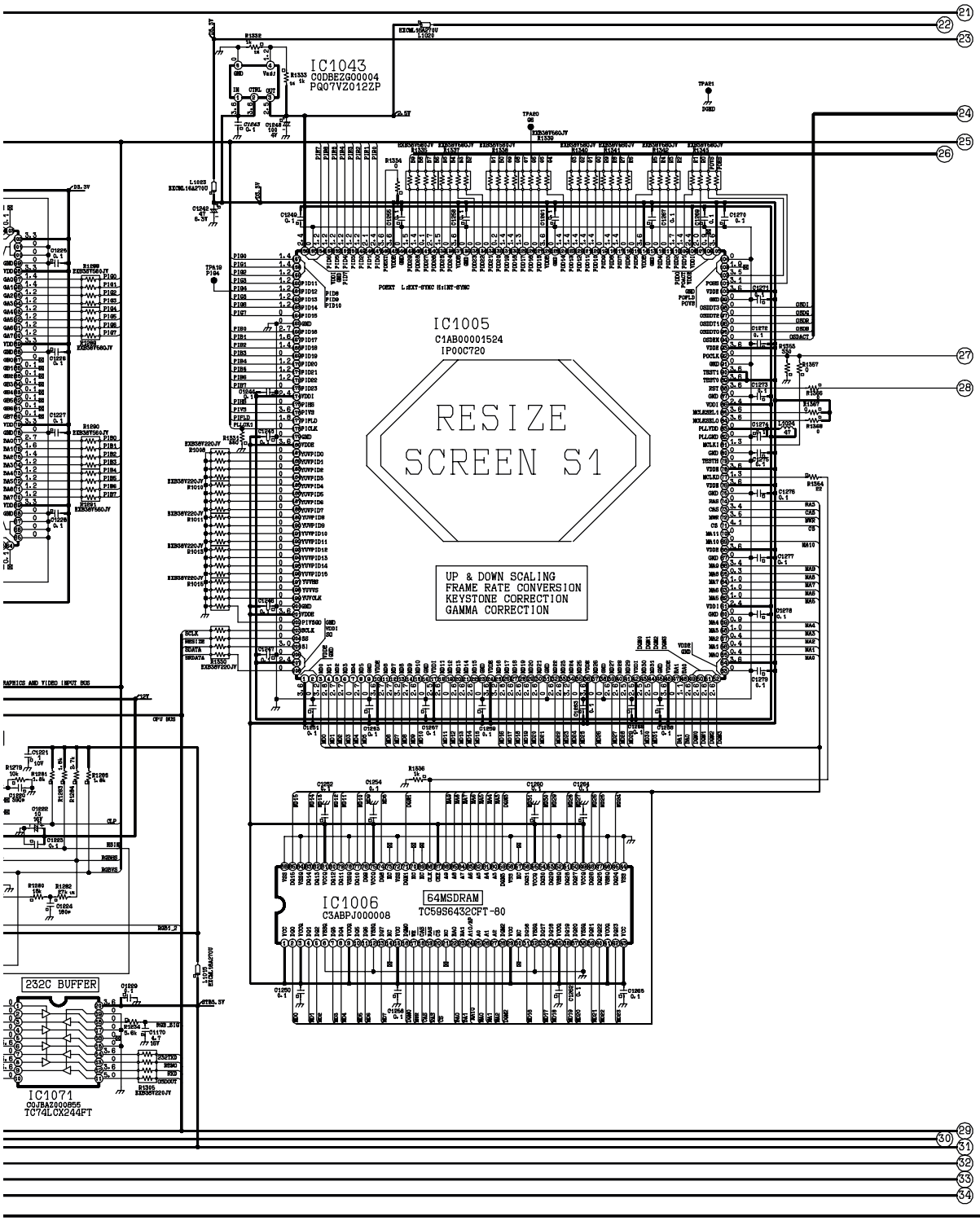

IC1040
XC6203P502PR
IC1041
XC6203P502PR
RGB2 SYNC SW
IC1036
VIDEO DECORDER
IC1033
TB1274AF
Q1003
Q1002
Q1075
Q1004
Q1005
C_in
Y_in
3-Line COM FILTER
IC1034
Q1021
FAN CONTROL REGULATOR
IC1030
IC1031
Q1029
Q1030
Q1036
Q1035
Q1057
Q1073
Q1058
Q1074
INTAKE FAN2
INTAKE FAN1

5 6 7 8 9

11.7. A-P.C.Board (PT-LC55U/E, PT-U1S65) (2/4)

A-P.C.Board TXANP01VJJ7 (PT-LC55U/E, PT-U1S65) (2/4)

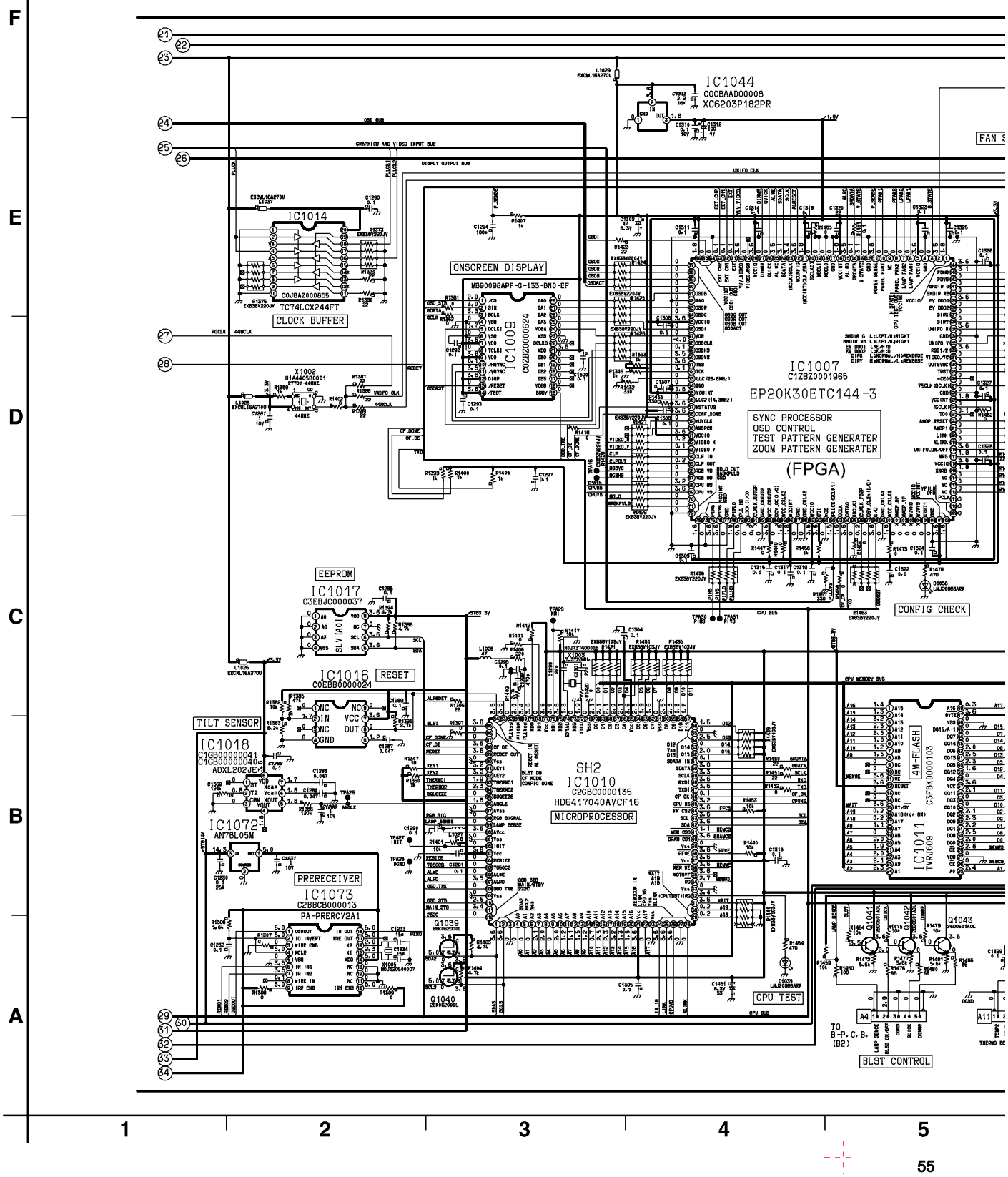


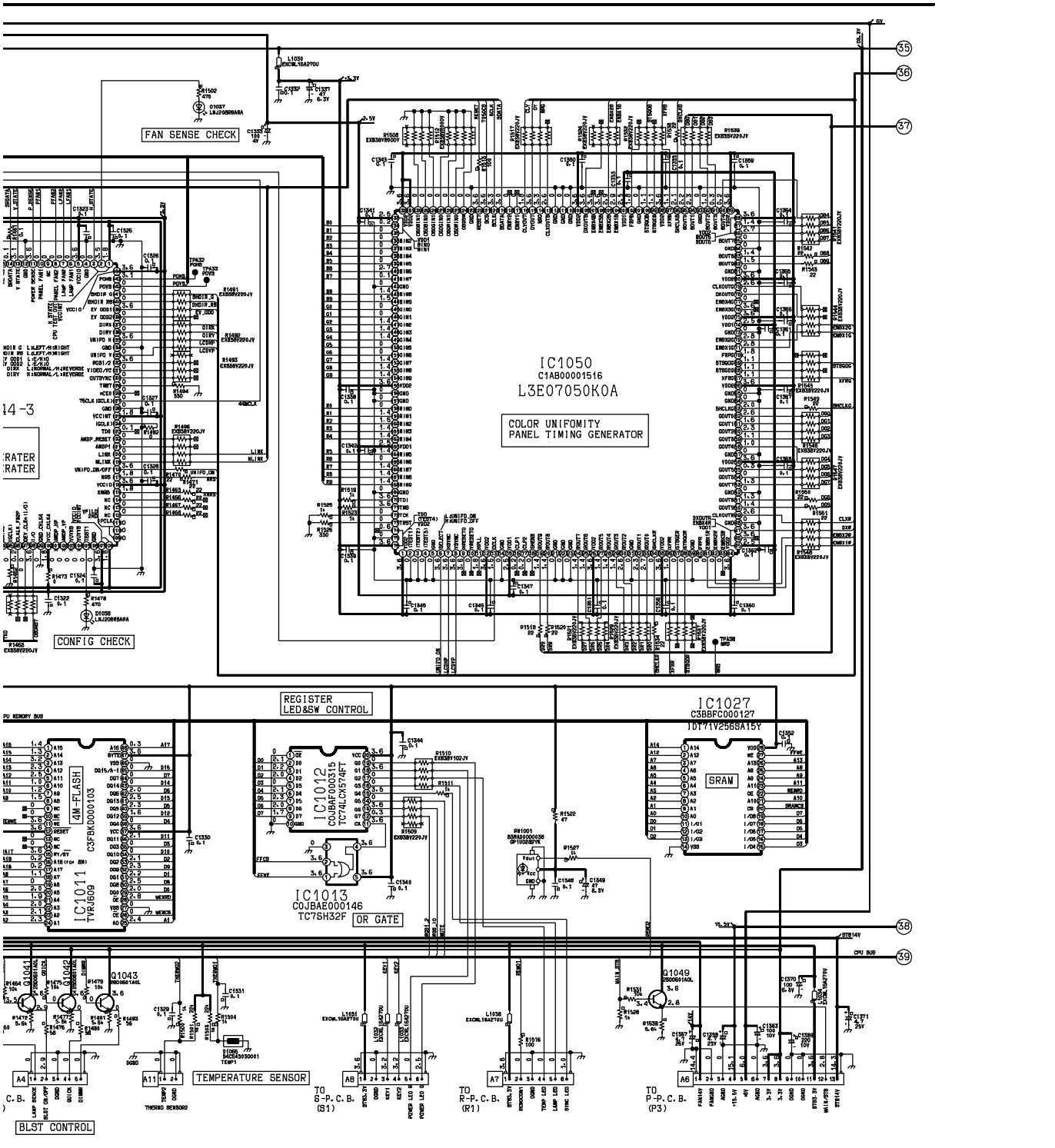

IC1043
C0DBEZG00004
PQ07VZ012ZP
IC1005
C1AB00001524
IP00C720
RESIZE
SCREEN S1
UP & DOWN SCALING
FRAME RATE CONVERSION
KEYSTONE CORRECTION
GAMMA CORRECTION
IC1006
C3ABPJ000008
64MSDRAM
TC59S6432CFT-80
232C BUFFER
IC1071
C0JBAZ000055
TC74LCX244FT
21
22
23
24
25
26
27
28
29
30
31
32
33
34

5 6 7 8 9

11.8. A-P.C.Board (PT-LC55U/E, PT-U1S65) (3/4)

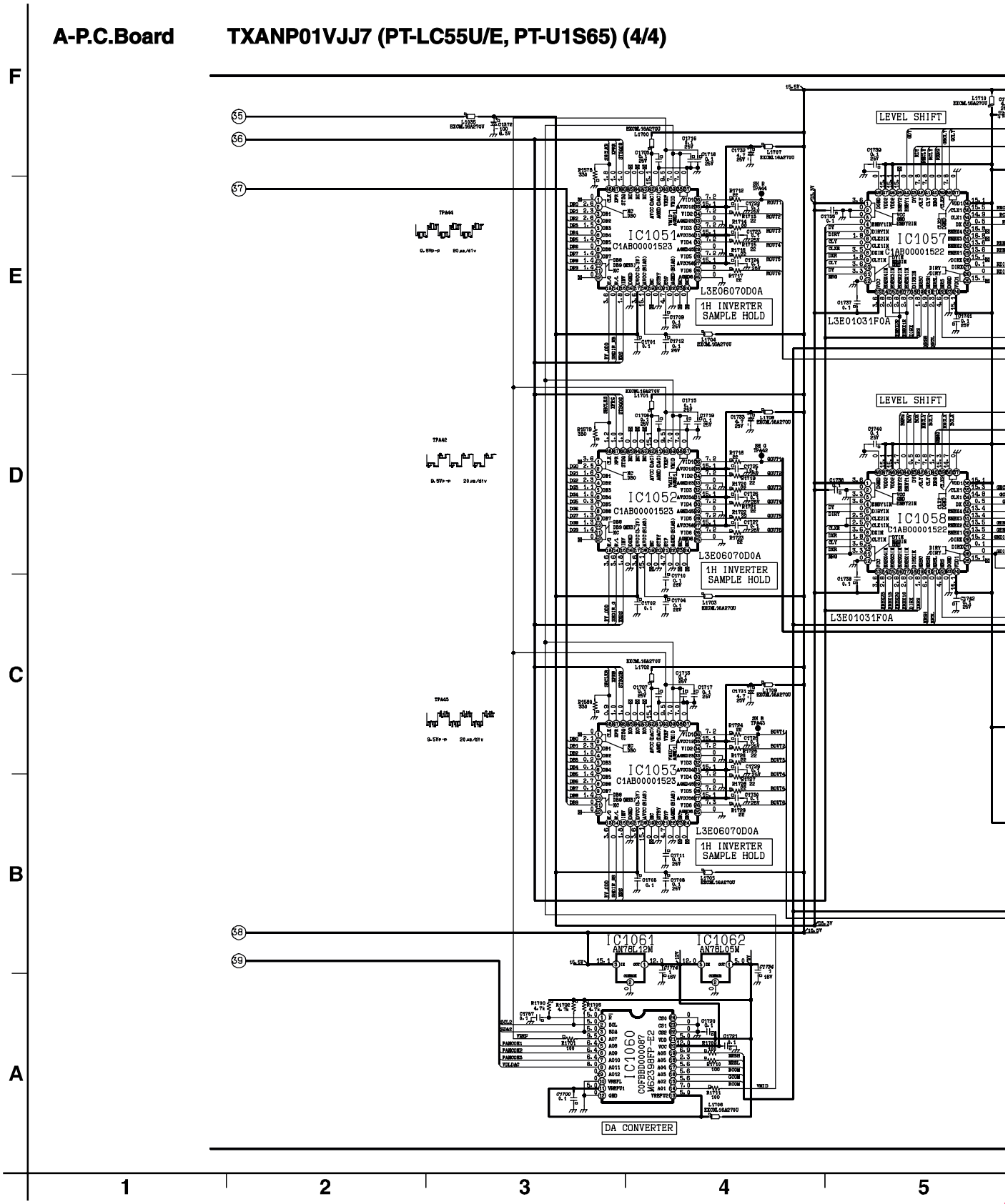
A-P.C.Board TXANP01VJJ7 (PT-LC55U/E, PT-U1S65) (3/4)

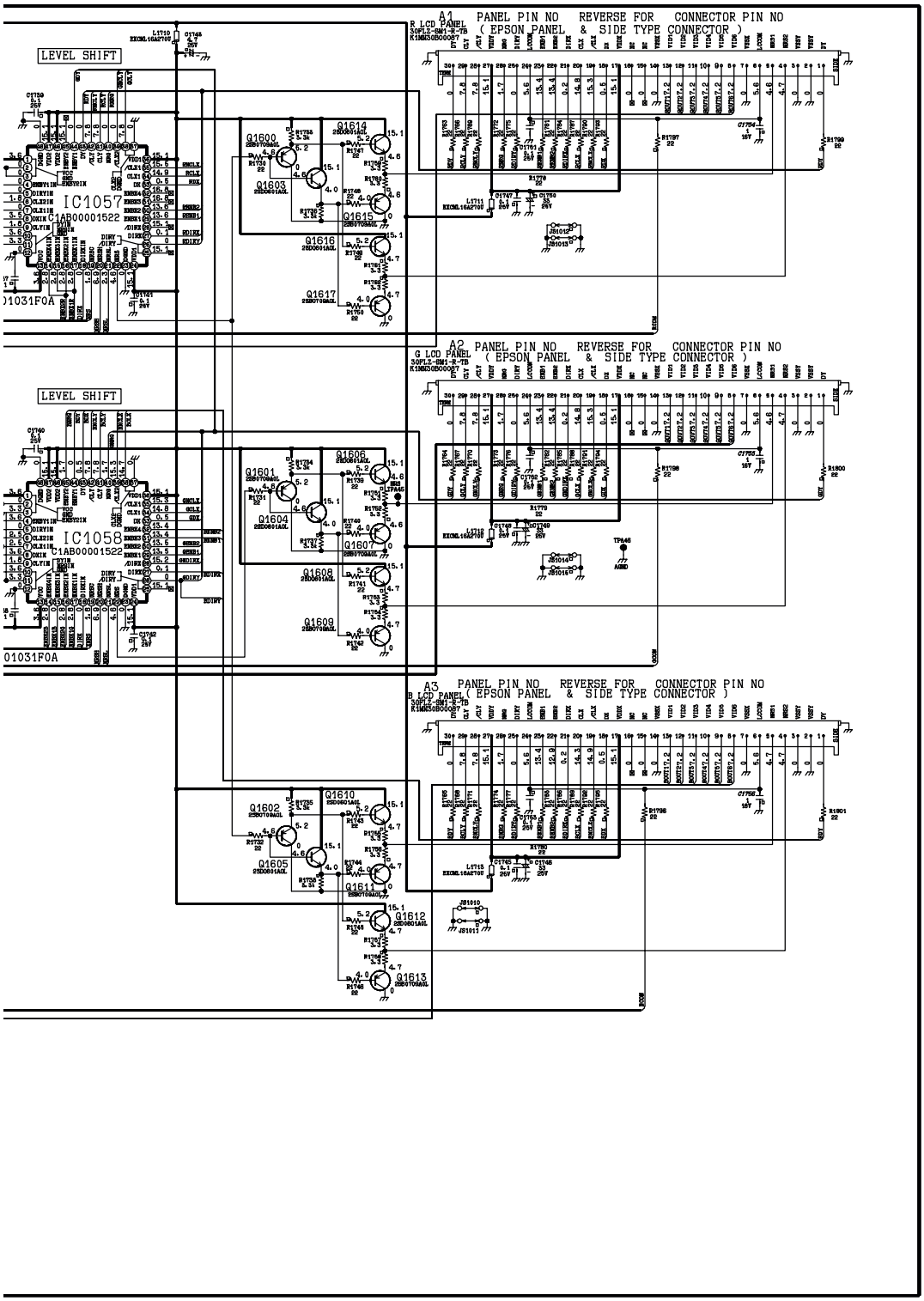



FAN SENSE CHECK
CONFIG CHECK
IC1050
C1AB00001516
L3E07050K0A
COLOR UNIFOMITY
PANEL TIMING GENERATOR
REGISTER
LED&SW CONTROL
IC1027
C3BBFC000127
1DT71V256SA15Y
SRAM
4M-FLASH
C3FBKD000103
IC1011
TVRJ609
IC1012
C0JBAF000315
TC74LCX574FT
IC1013
C0JBAE000146
TC7SH32F
OR GATE
TEMPERATURE SENSOR
BLST CONTROL
TO
S-P.C.B.
(S1)
TO
R-P.C.B.
(R1)
TO
P-P.C.B.
(P3)

11.9. A-P.C.Board (PT-LC55U/E, PT-U1S65) (4/4)

A-P.C.Board **TXANP01VJJ7 (PT-LC55U/E, PT-U1S65) (4/4)**

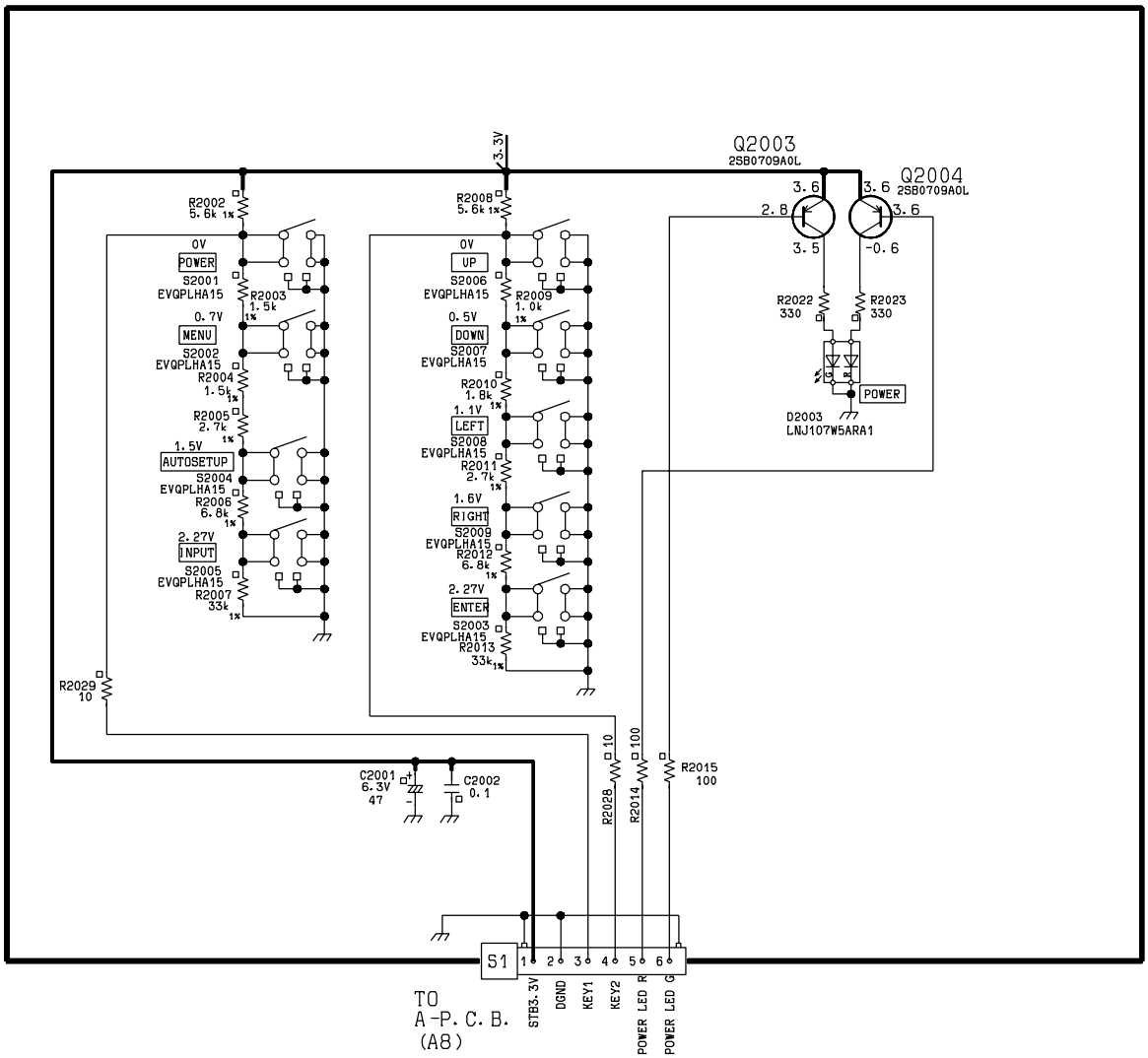



A1 PANEL PIN NO REVERSE FOR CONNECTOR PIN NO
(EPSON PANEL & SIDE TYPE CONNECTOR)
R LCD PANEL
LEVEL SHIFT
IC1057
C1AB00001522
A2 PANEL PIN NO REVERSE FOR CONNECTOR PIN NO
(EPSON PANEL & SIDE TYPE CONNECTOR)
G LCD PANEL
LEVEL SHIFT
IC1058
C1AB00001522
A3 PANEL PIN NO REVERSE FOR CONNECTOR PIN NO
(EPSON PANEL & SIDE TYPE CONNECTOR)
B LCD PANEL

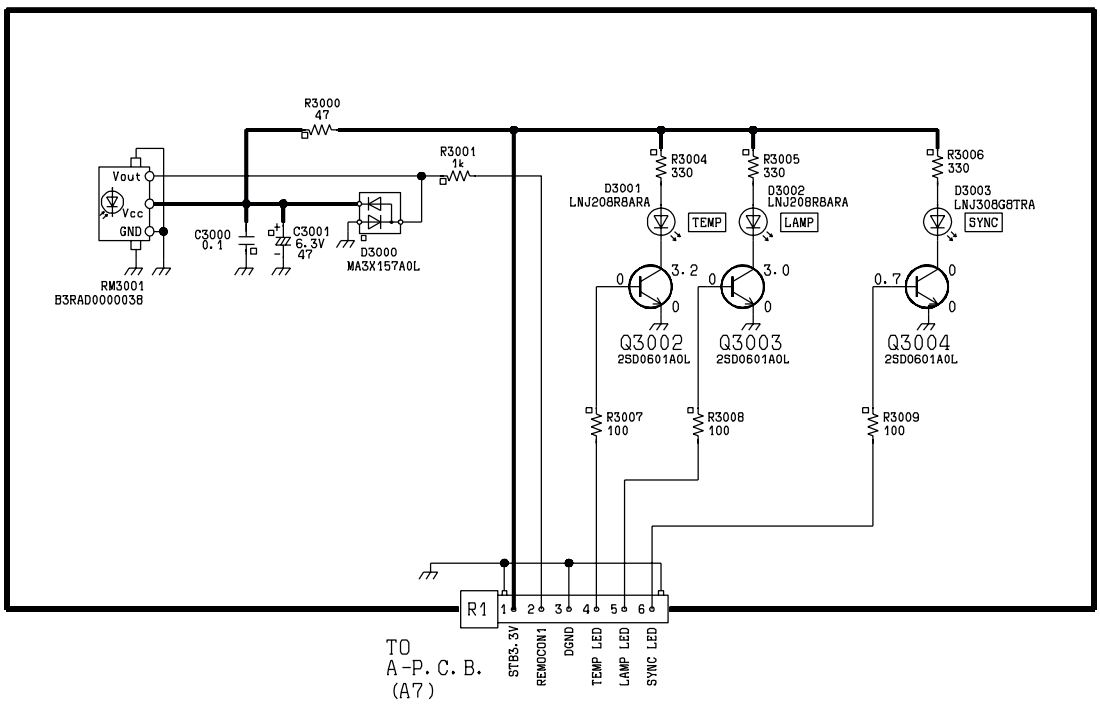
5 6 7 8 9

11.10. S-P.C.Board, R-P.C.Board

S-P.C.Board TNPA2391



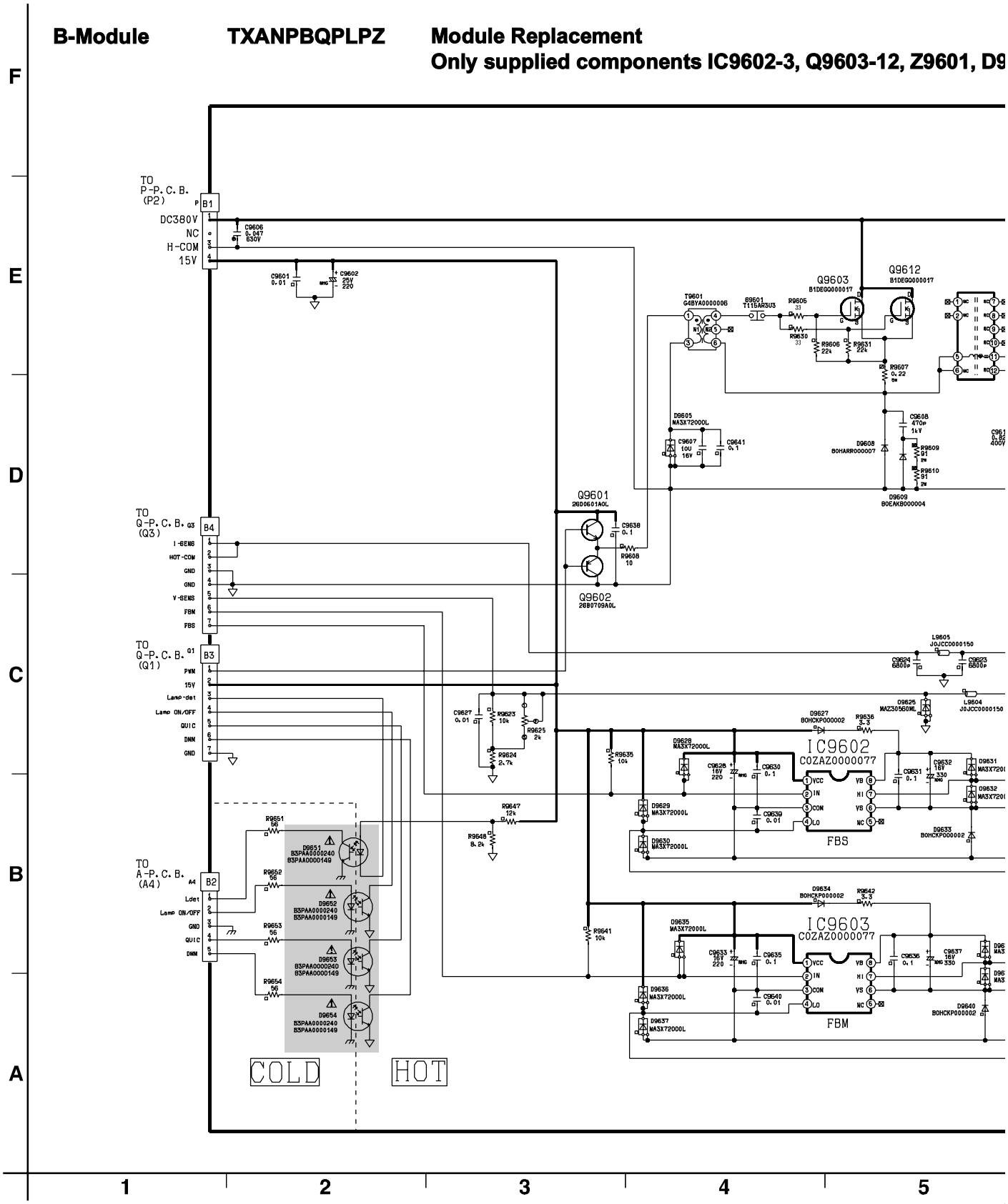
R-P.C.Board TNPA2400



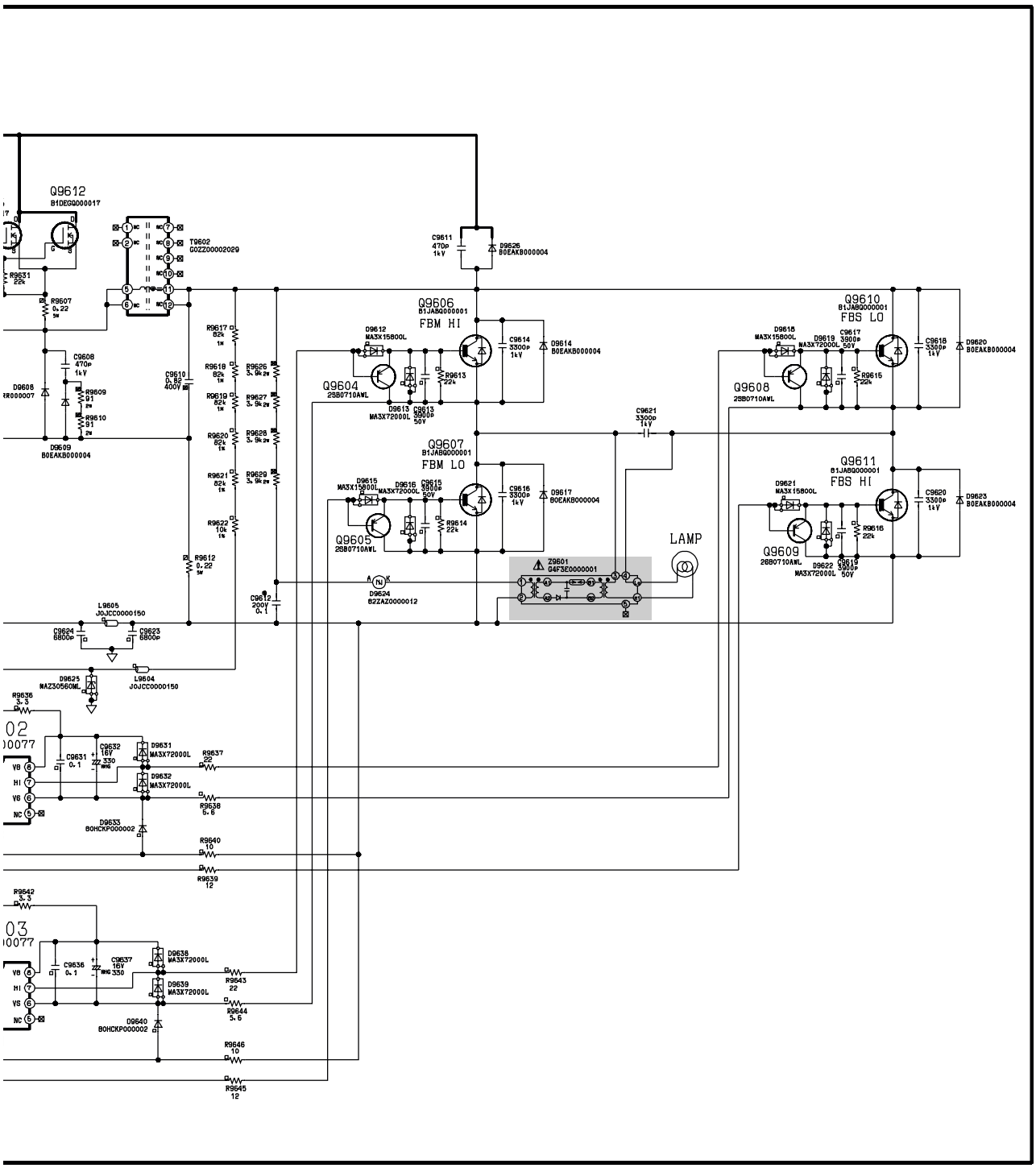
11.11. B-Module

B-Module **TXANPBQPLPZ** **Module Replacement**

Only supplied components IC9602-3, Q9603-12, Z9601, D9

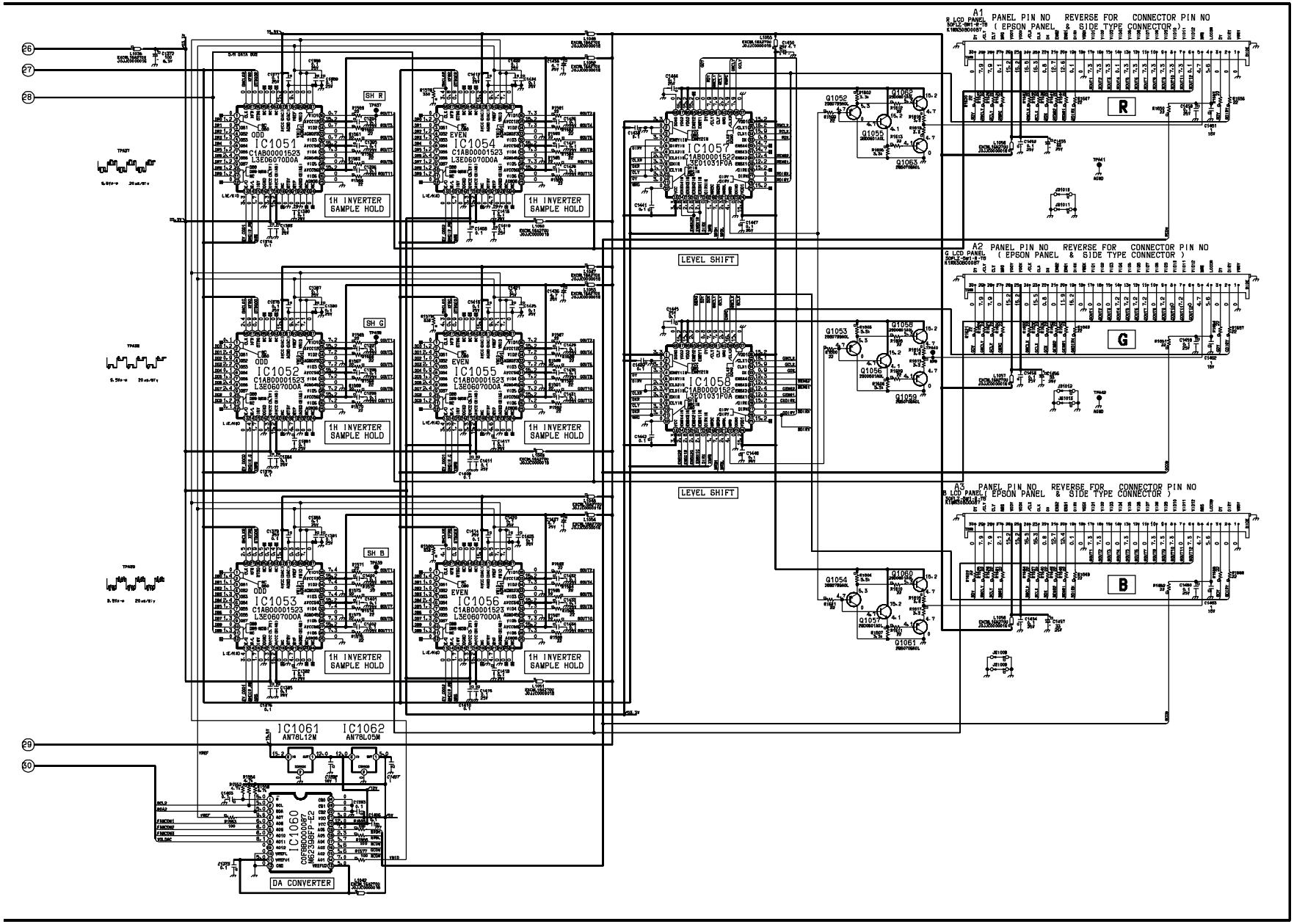


D3-12, Z9601, D9612-13, D9615-16, D9618-19,D9621-22



5 6 7 8 9

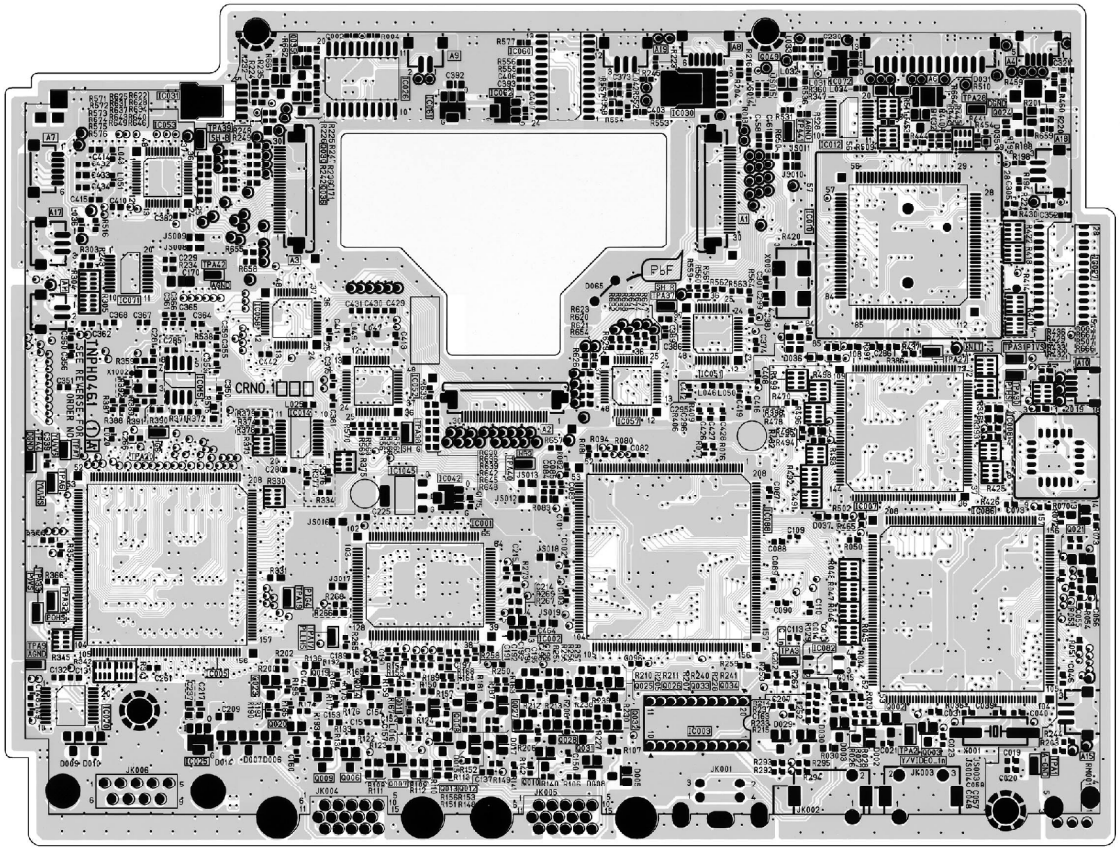
A-P.C.Board **TXANP01VJJ8 (PT-LC75U/E, PT-U1X65) (5/5)**



A-P.C.Board TXANP01VJJ8
(Foil Side)

A-P.C.Board (Foil Side)											
IC				TRANSISTOR				TPA			
IC1001	B-2	IC1051	C-4	Q1002	A-4	Q1023	A-2	TPA1	A-5	TPA32	B-1
IC1002	B-3	IC1052	C-2	Q1003	A-5	Q1024	D-5	TPA2	A-5	TPA33	B-1
IC1003	A-4	IC1053	C-1	Q1006	A-2	Q1025	A-3	TPA3	A-4	TPA37	C-3
IC1005	B-1	IC1057	C-3	Q1007	A-2	Q1026	A-3	TPA4	B-1	TPA38	B-2
IC1007	B-4	IC1058	C-2	Q1008	A-3	Q1027	A-3	TPA6	B-1	TPA39	D-1
IC1010	C-4	IC1060	D-3	Q1009	A-2	Q1028	A-3	TPA7	B-1	TPA40	B-3
IC1012	D-4	IC1061	D-3	Q1010	A-3	Q1030	D-2	TPA9	A-1	TPA41	D-4
IC1014	B-2	IC1062	D-3	Q1011	A-2	Q1031	A-3	TPA17	A-2	TPA42	C-1
IC1025	A-1	IC1070	A-1	Q1012	A-3	Q1032	A-3	TPA19	B-2		
IC1026	D-2	IC1071	C-1	Q1013	A-3	Q1033	A-4	TPA20	B-1		
IC1027	C-5	IC1072	D-4	Q1014	A-2	Q1034	A-4	TPA27	C-5		
IC1030	D-4	IC1082	A-4	Q1019	A-2	Q1035	D-2	TPA28	D-5		
IC1031	D-1	IC1086	B-5	Q1020	A-2	Q1036	D-2	TPA30	C-5		
IC1042	B-3	IC1088	B-4	Q1021	B-5	Q1049	D-4	TPA31	C-5		

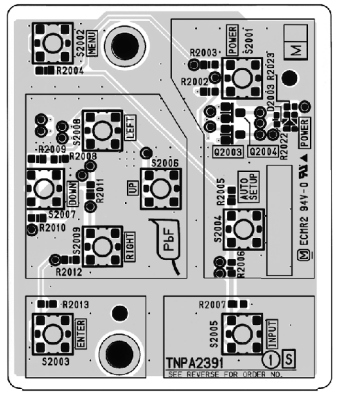
ADDRESS INFORMATION



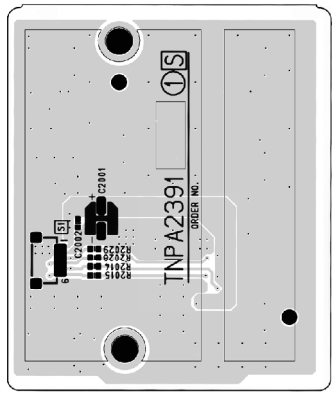
S-P.C.Board TNPA2391
(Foil Side)

S-P.C.Board (Foil Side)	
TRANSISTOR	
Q2003	D-8
Q2004	D-8

ADDRESS INFORMATION

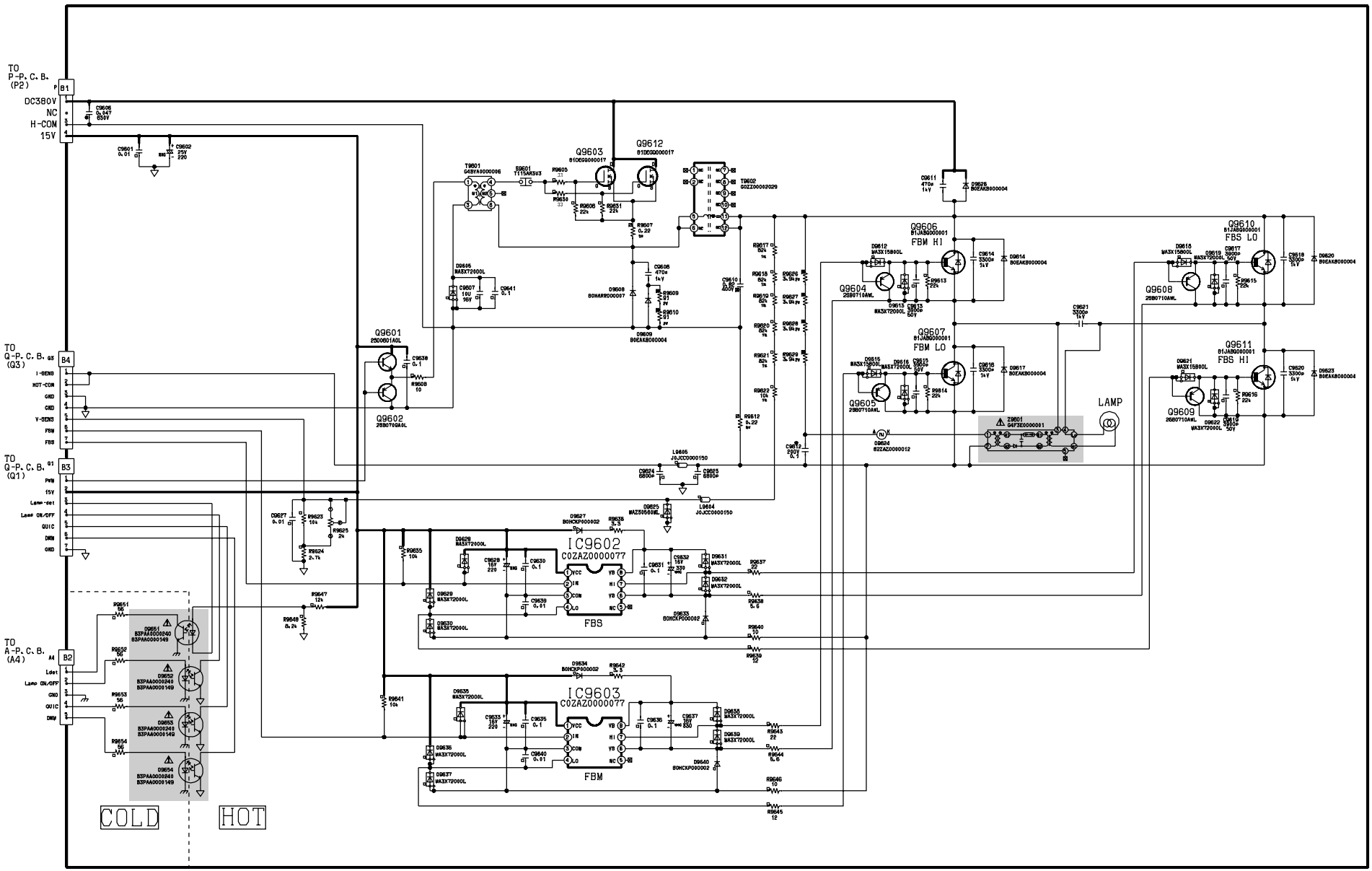


S-P.C.Board TNPA2391
(Component Side)

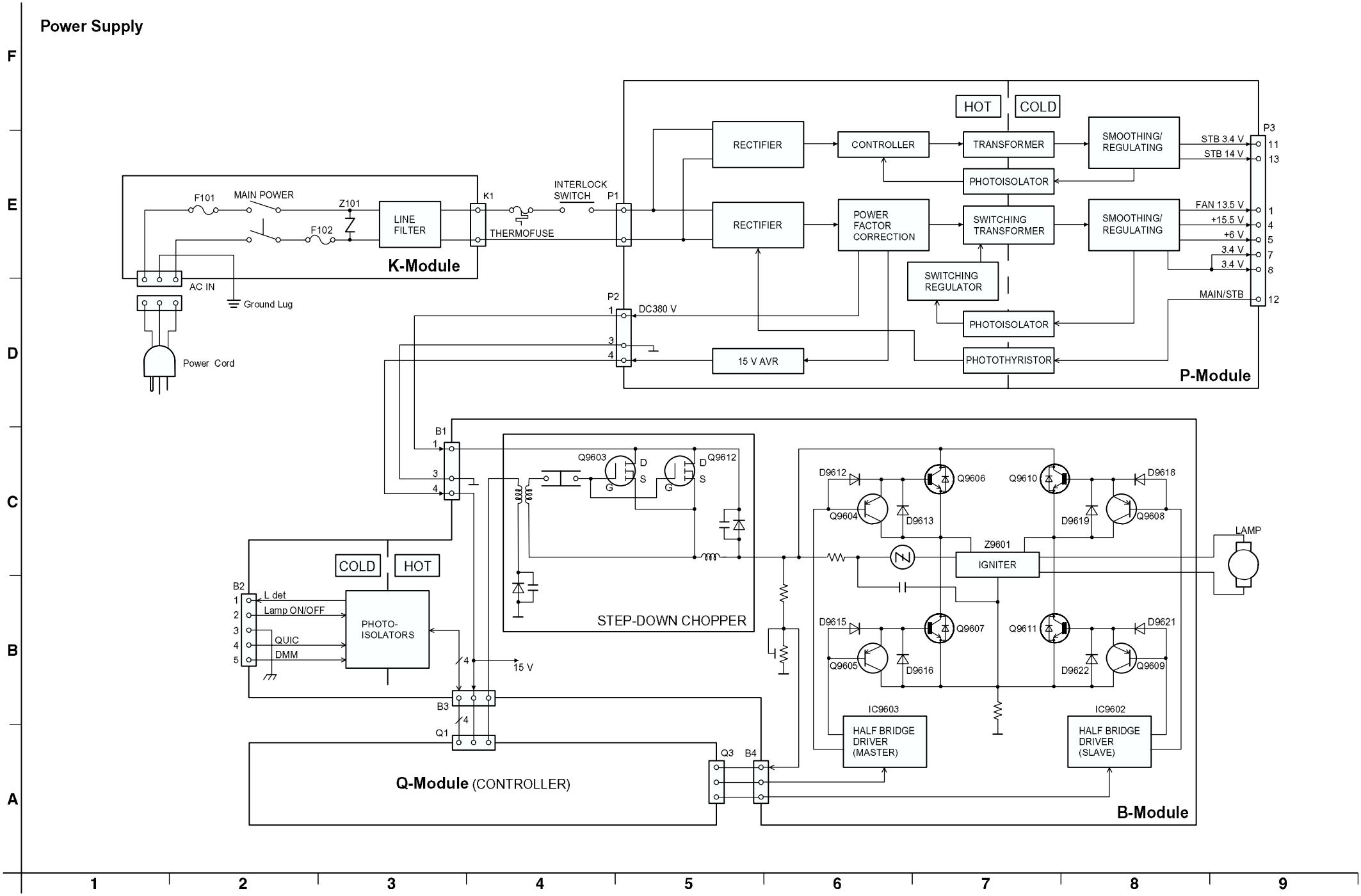


B-Module **TXANPBQPLPZ** **Module Replacement**

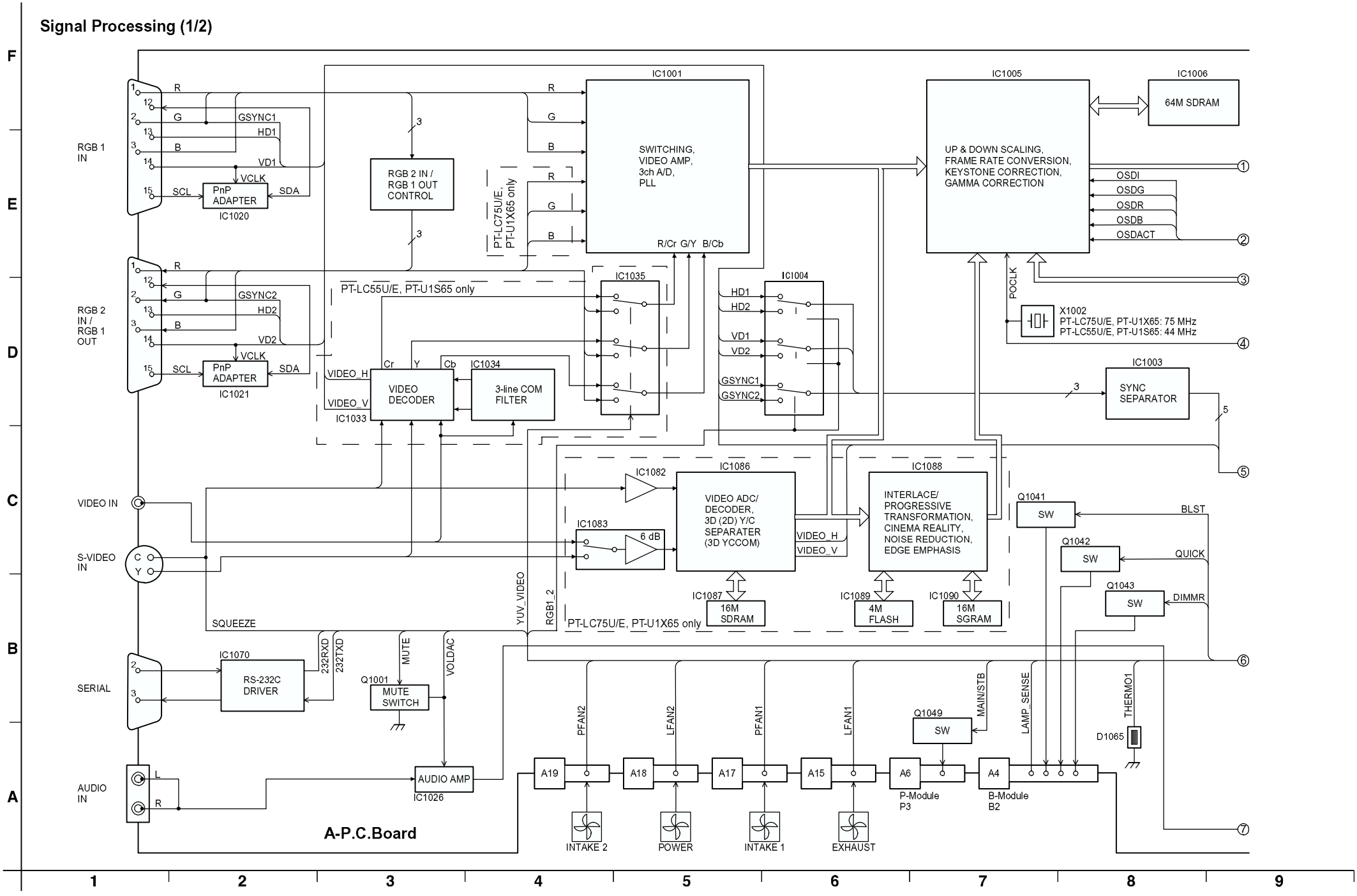
Only supplied components IC9602-3, Q9603-12, Z9601, D9612-13, D9615-16, D9618-19,D9621-22



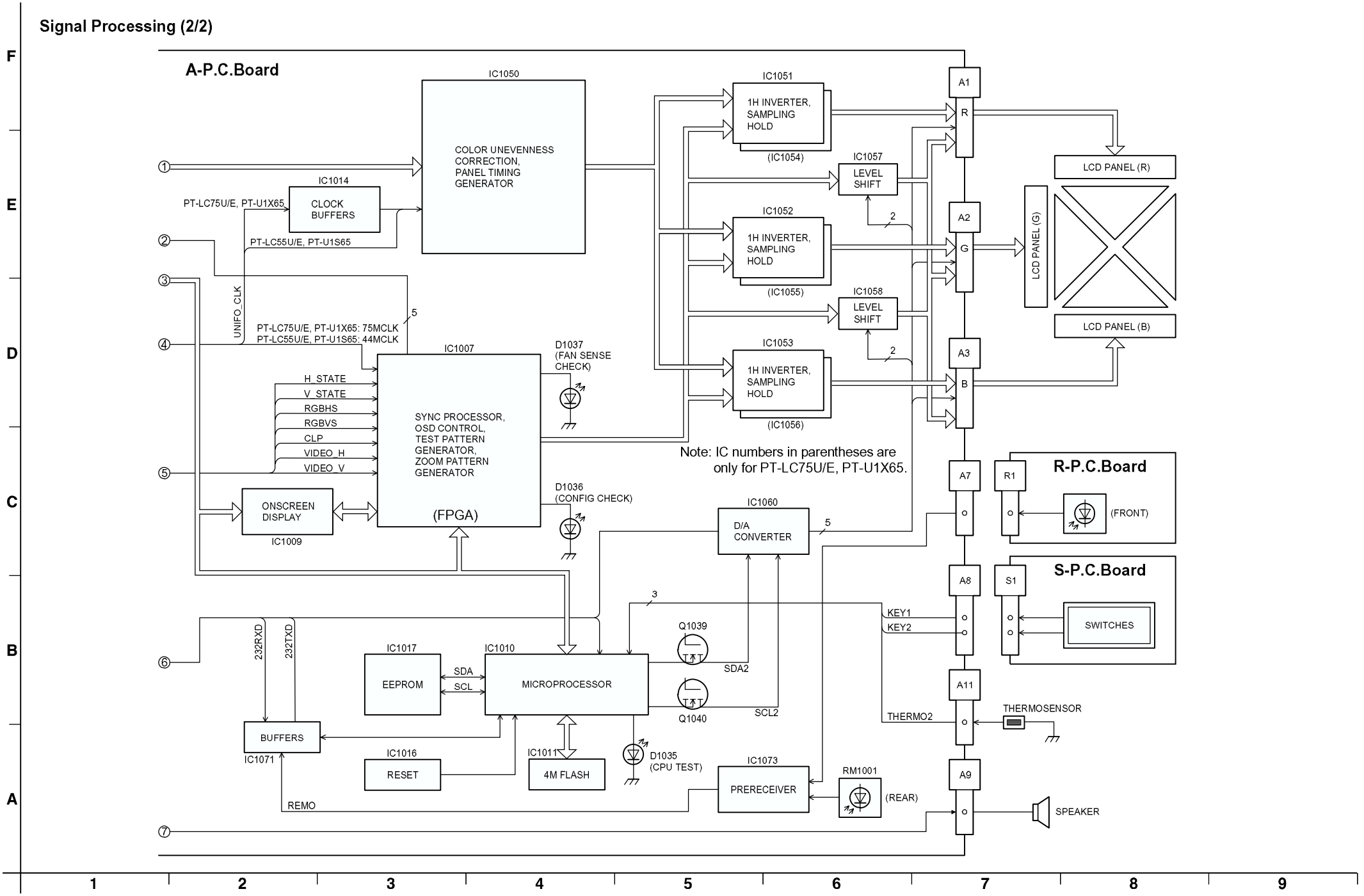
Power Supply



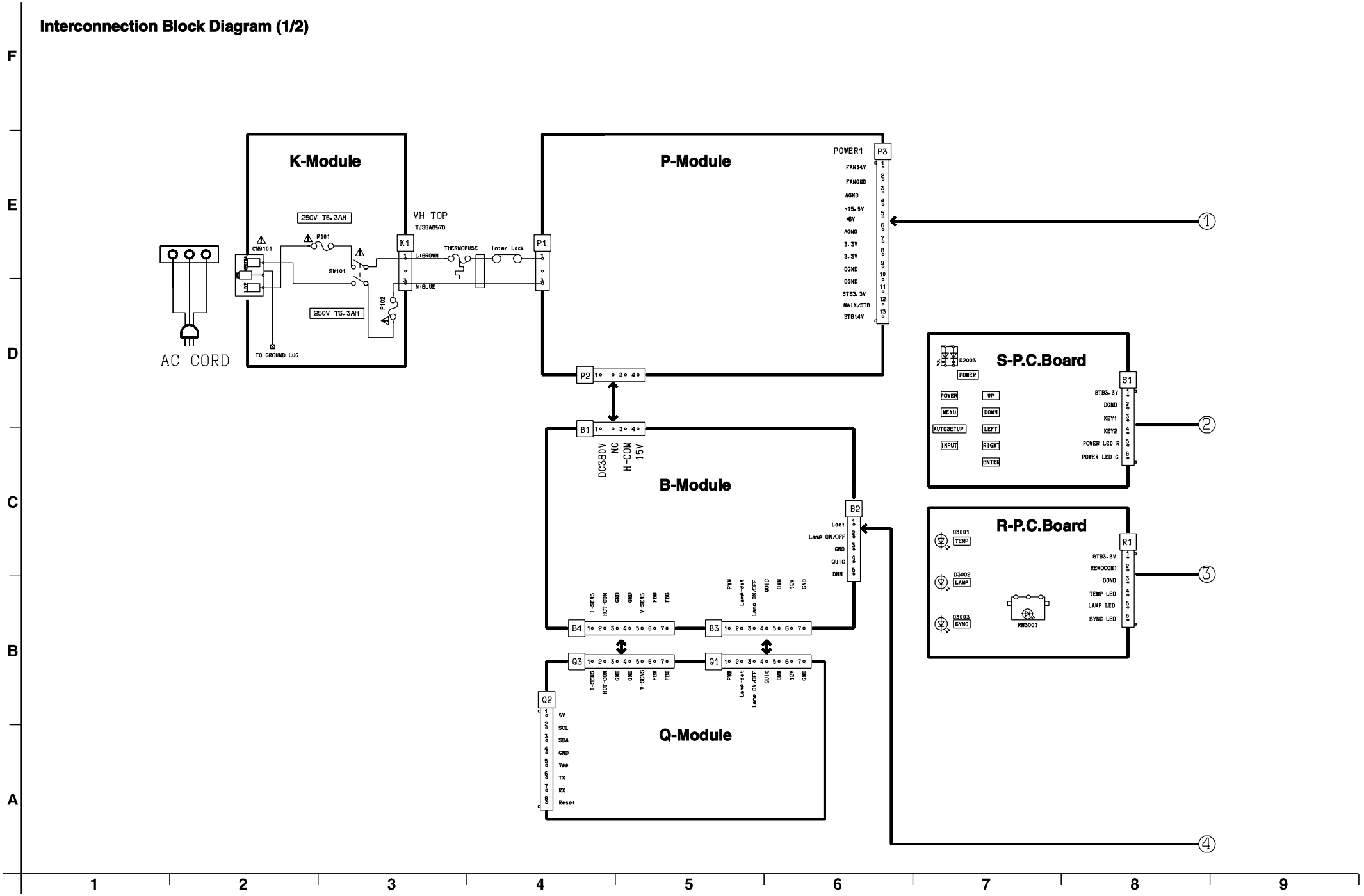
Signal Processing (1/2)



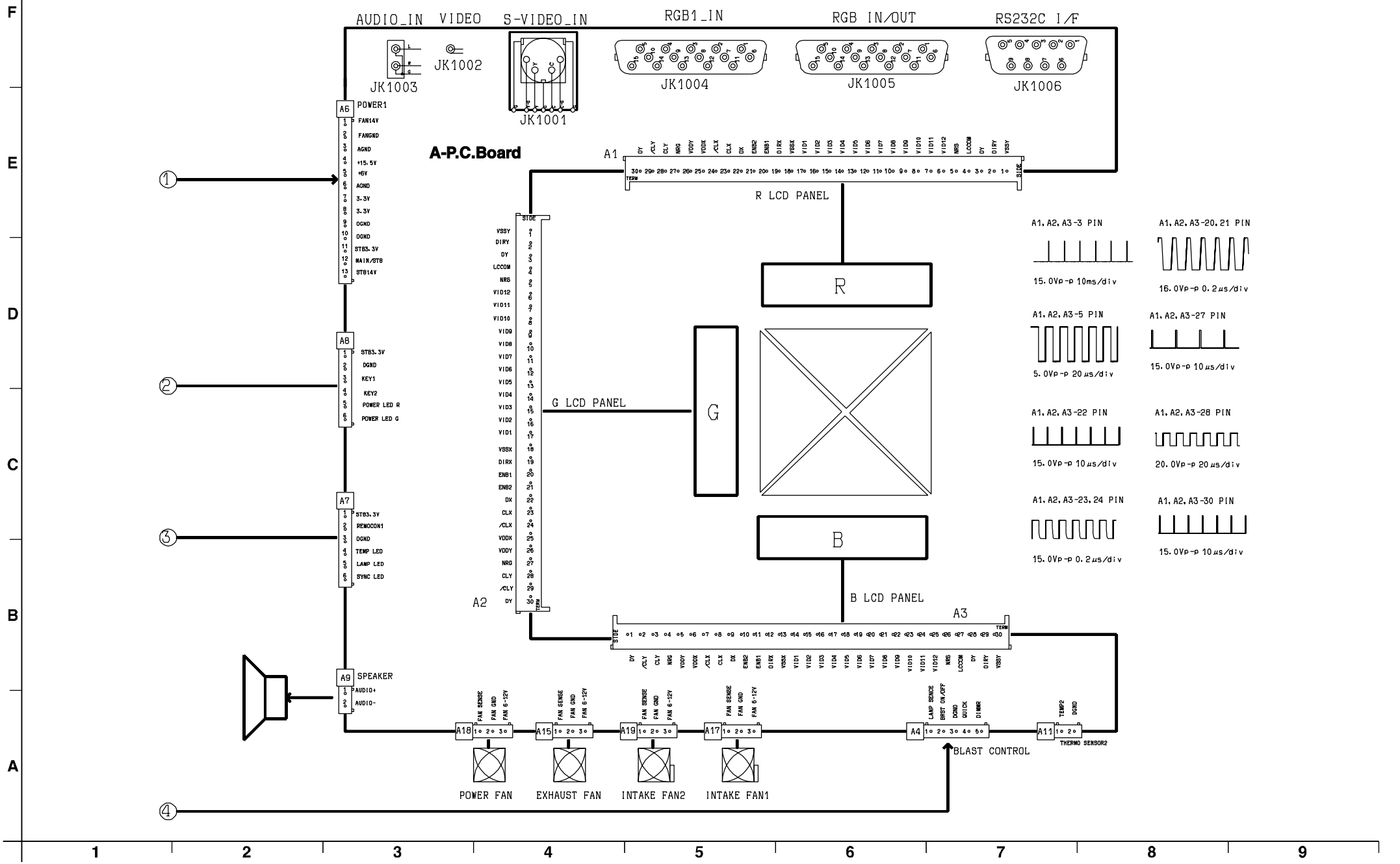
Signal Processing (2/2)



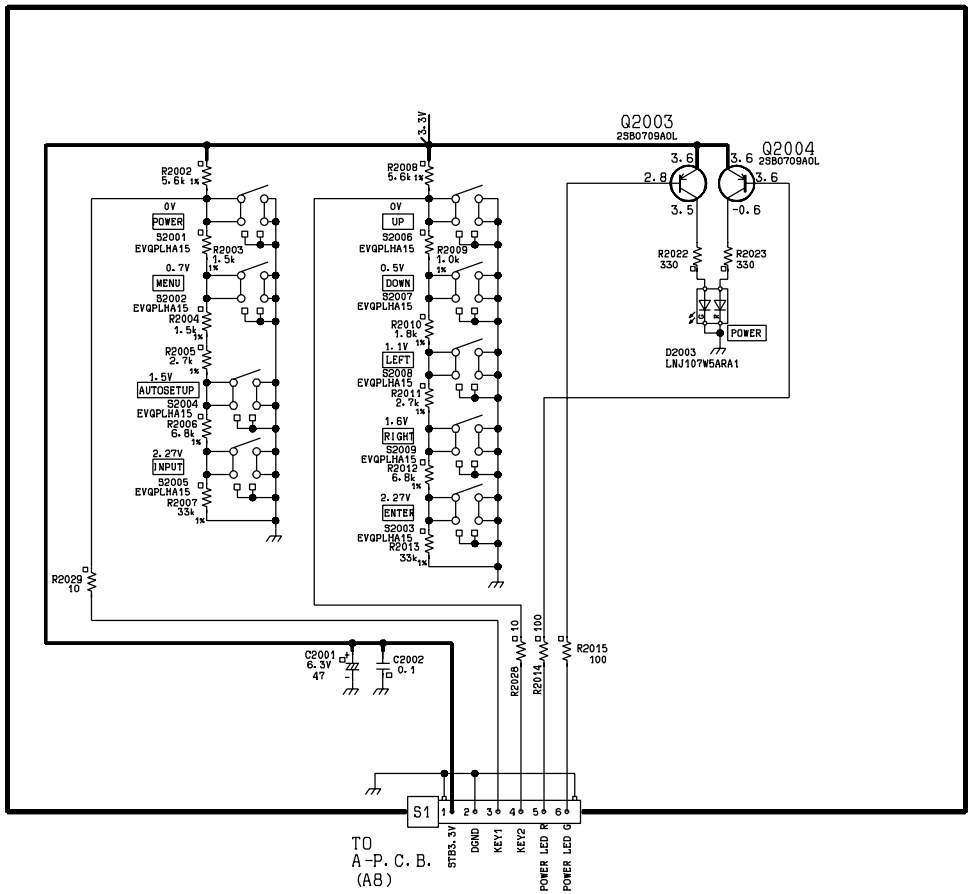
Interconnection Block Diagram (1/2)



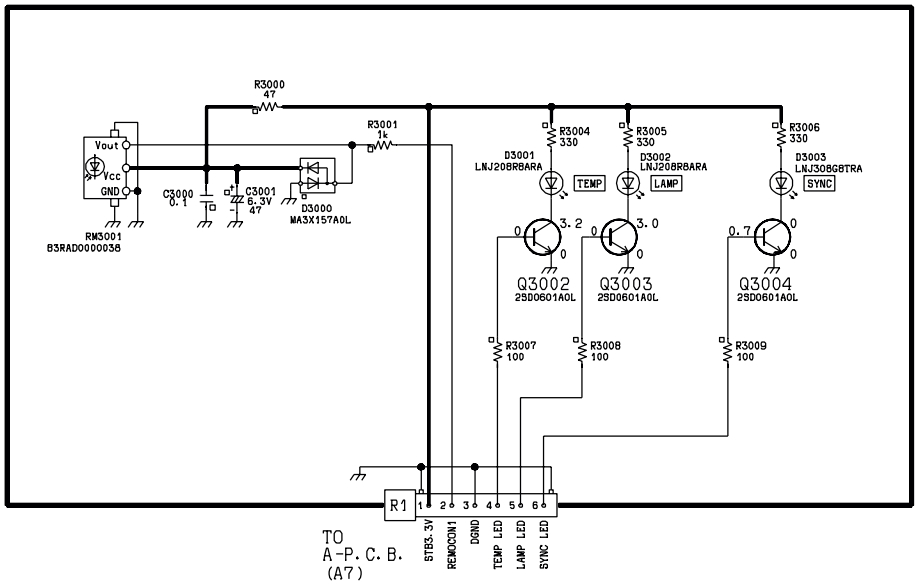
Interconnection Block Diagram (2/2)



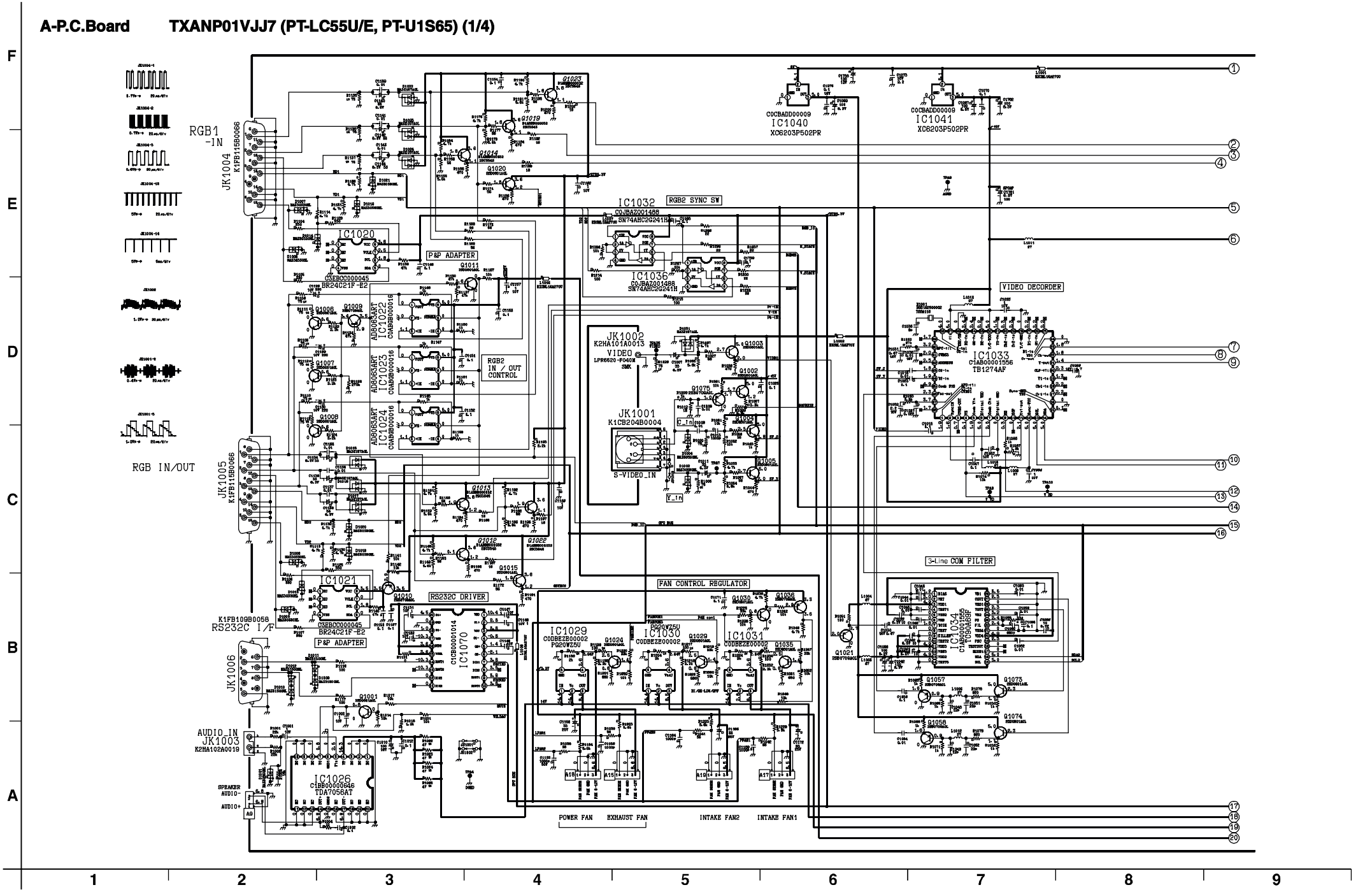
S-P.C.Board TNPA2391



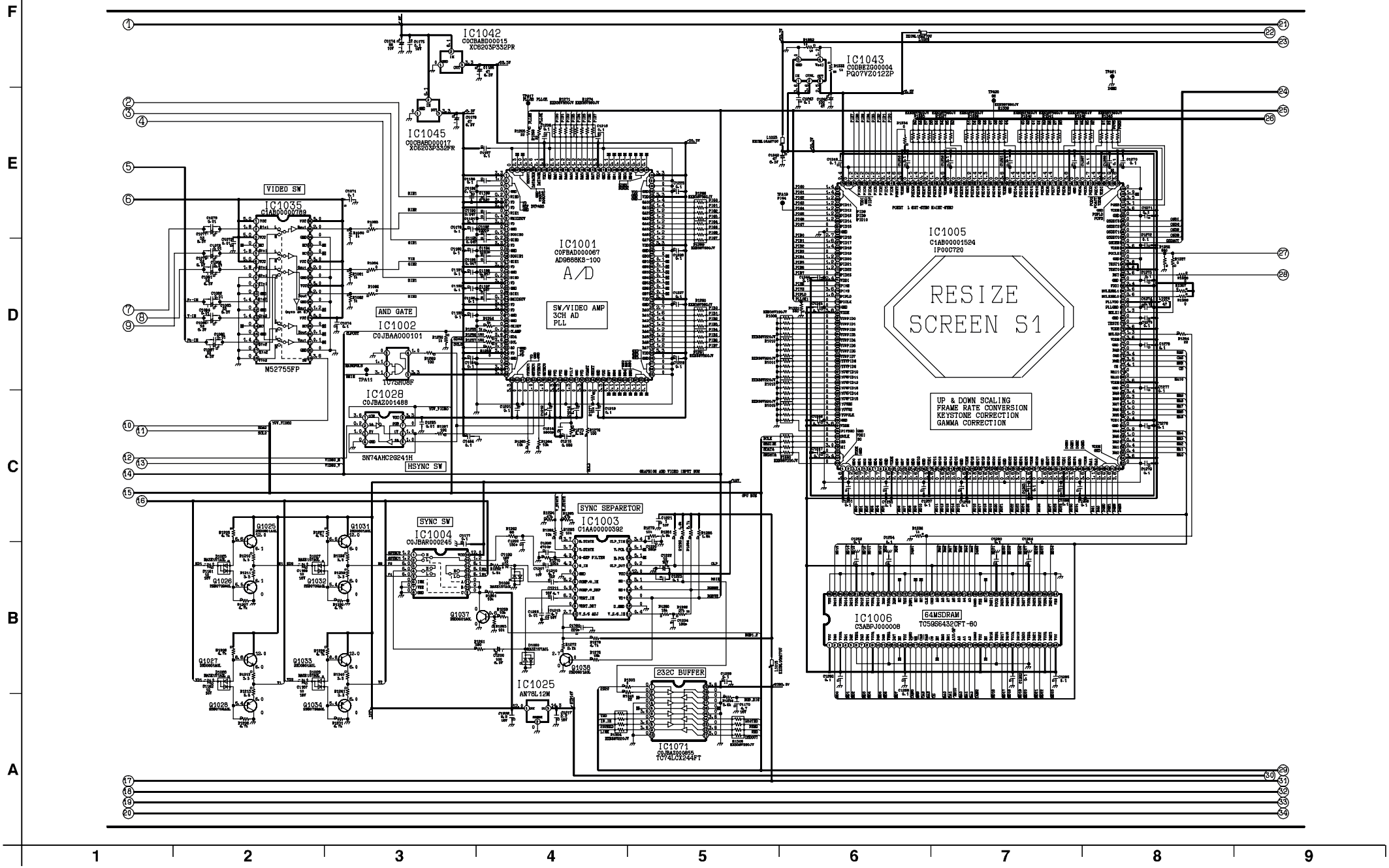
R-P.C.Board TNPA2400



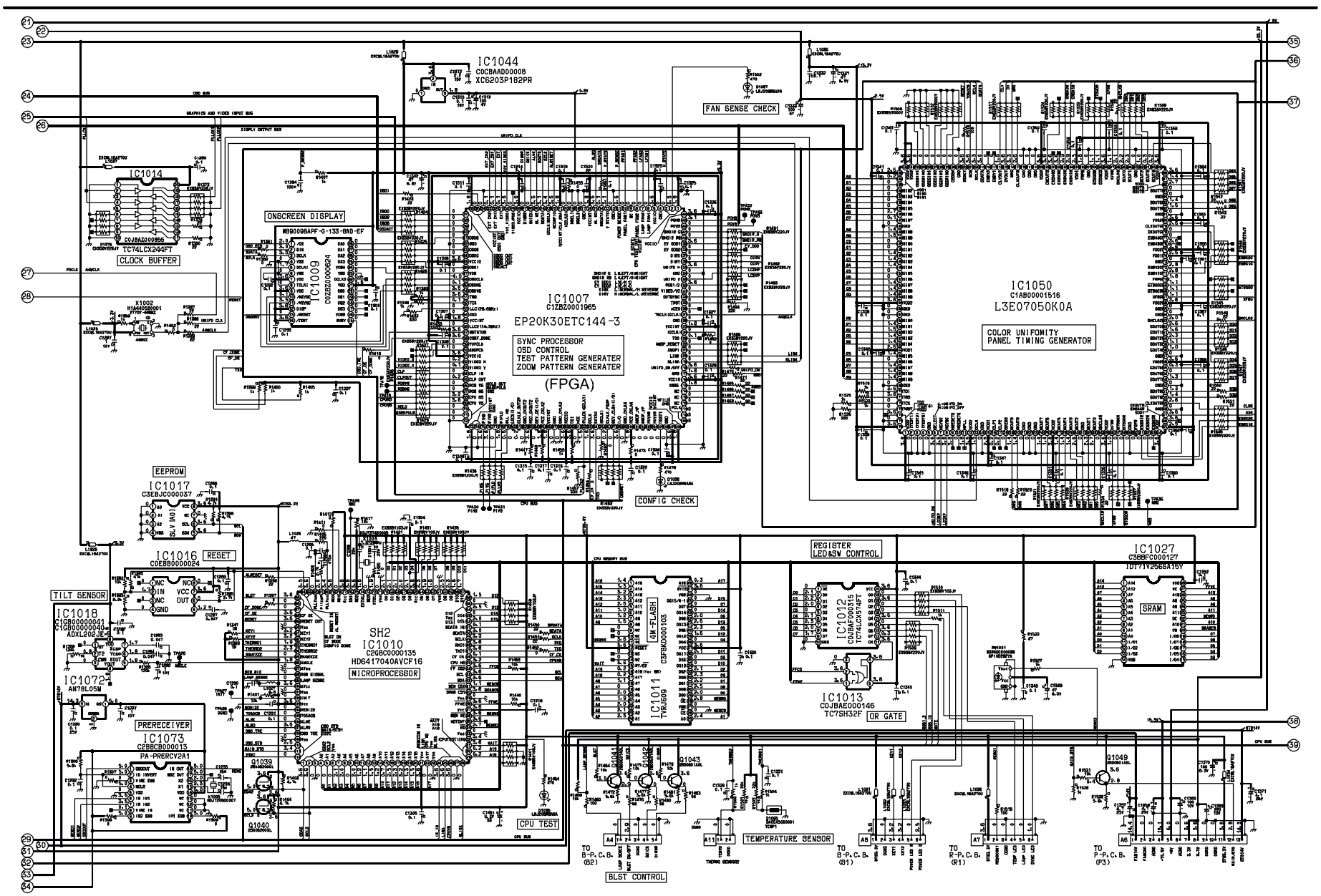
A-P.C.Board TXANP01VJJ7 (PT-LC55U/E, PT-U1S65) (1/4)



A-P.C.Board TXANP01VJJ7 (PT-LC55U/E, PT-U1S65) (2/4)



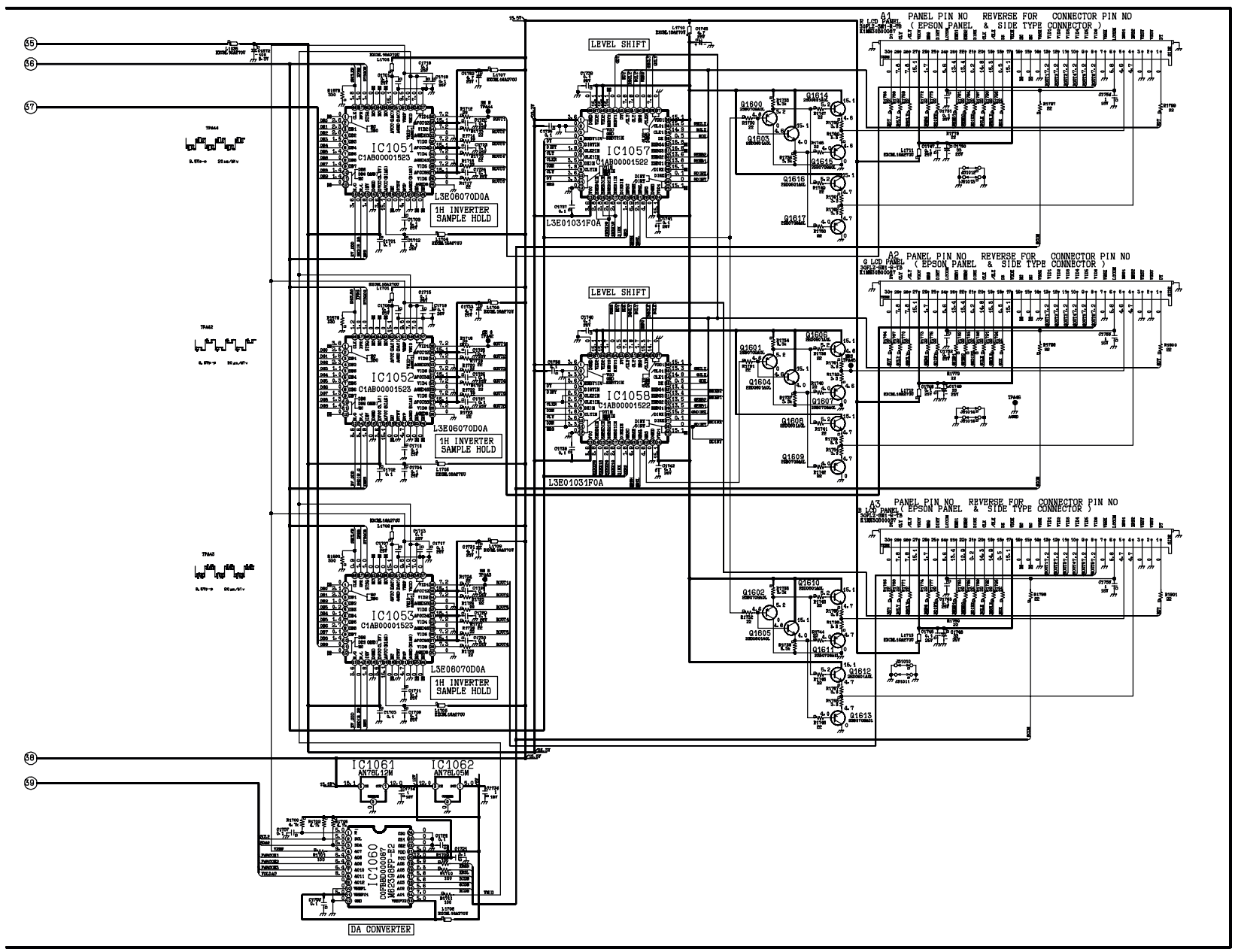
A-P.C.Board TXANP01VJJ7 (PT-LC55U/E, PT-U1S65) (3/4)



F E D C B A

1 2 3 4 5 6 7 8 9

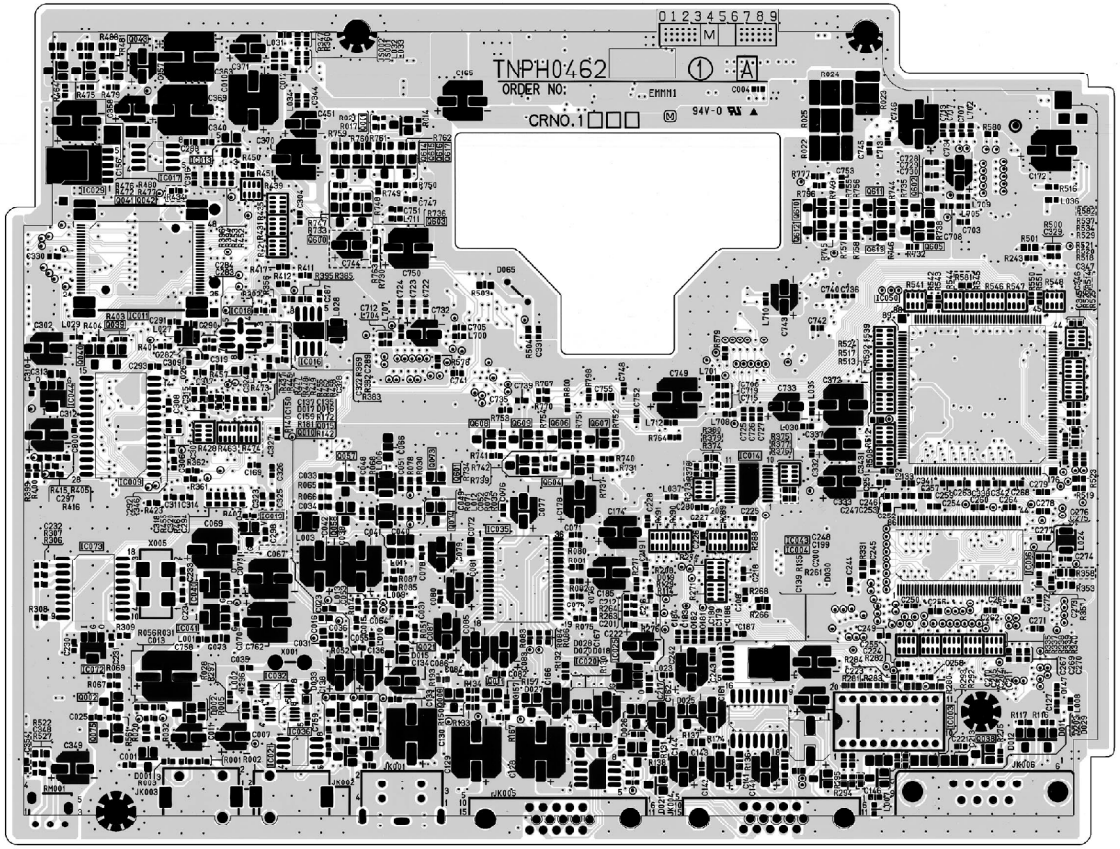
A-P.C.Board **TXANP01VJJ7 (PT-LC55U/E, PT-U1S65) (4/4)**



A-P.C.Board TXANP01VJJ7
(Component Side)

A-P.C.Board (Component Side)									
IC				TRANSISTOR					
IC1003	A-5	IC1025	A-3	Q1001	D-2	Q1043	D-1	Q1606	B-3
IC1004	B-4	IC1029	C-1	Q1002	A-1	Q1057	B-2	Q1607	B-3
IC1006	B-5	IC1032	A-2	Q1009	A-3	Q1058	A-2	Q1608	B-3
IC1009	B-1	IC1035	B-3	Q1010	B-2	Q1073	B-2	Q1609	B-3
IC1011	C-1	IC1036	A-2	Q1011	A-3	Q1074	B-3	Q1610	C-4
IC1013	D-2	IC1040	B-1	Q1015	B-2	Q1075	A-1	Q1611	C-4
IC1014	B-4	IC1041	B-2	Q1021	A-2	Q1600	C-2	Q1612	C-4
IC1016	C-2	IC1043	B-4	Q1038	A-5	Q1601	B-3	Q1613	C-4
IC1017	D-1	IC1044	C-1	Q1039	C-1	Q1602	C-5	Q1614	D-2
IC1018	C-2	IC1050	C-5	Q1040	C-1	Q1603	C-2	Q1615	D-2
IC1020	A-3	IC1072	A-1	Q1041	C-1	Q1604	B-3	Q1616	D-2
IC1021	A-2	IC1073	B-1	Q1042	C-1	Q1605	C-5	Q1617	D-2

ADDRESS INFORMATION



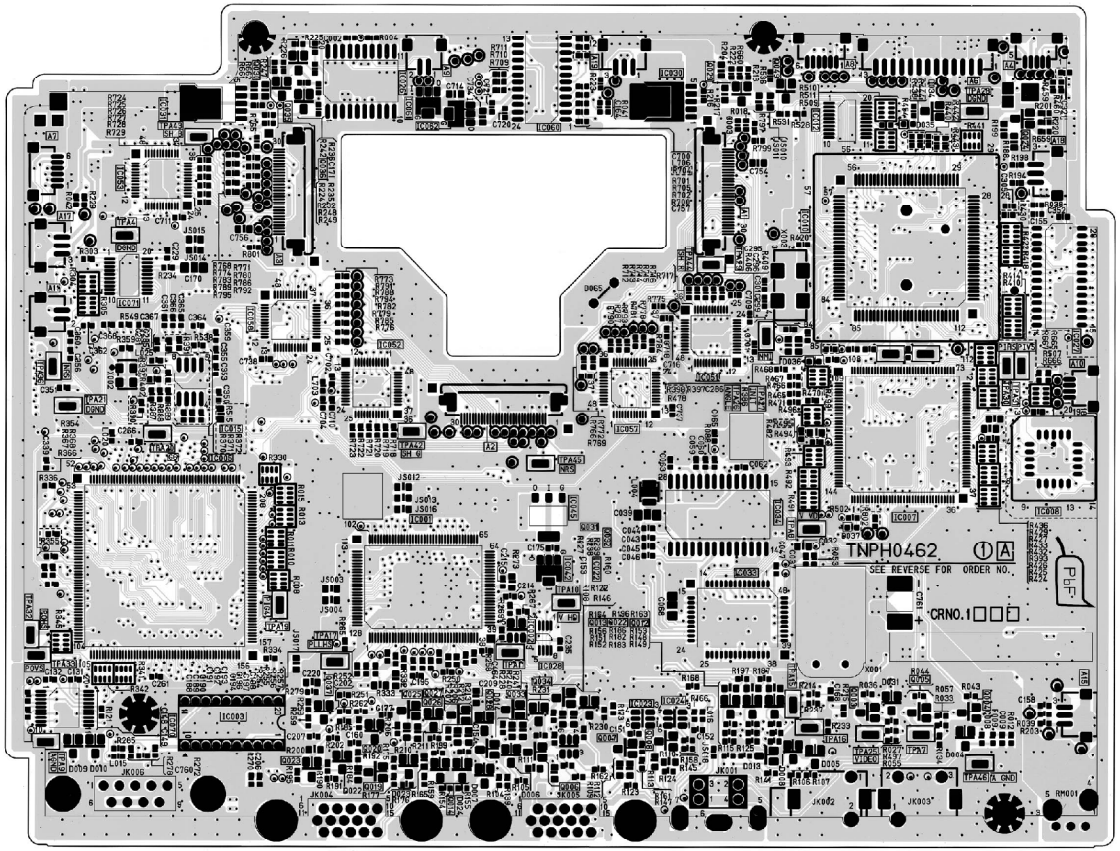
F E D C B A

1 2 3 4 5 6 7 8 9

A-P.C.Board TXANP01VJJ7
(Foil Side)

A-P.C.Board (Foil Side)											
IC				TRANSISTOR				TPA			
IC1001	B-2	IC1033	B-4	Q1003	A-4	Q1026	A-2	TPA4	C-1	TPA28	D-5
IC1002	B-2	IC1034	B-4	Q1004	A-5	Q1027	A-2	TPA7	A-5	TPA29	C-4
IC1003	A-2	IC1042	B-3	Q1005	A-5	Q1028	A-3	TPA8	B-4	TPA30	C-5
IC1005	B-1	IC1051	C-4	Q1006	A-3	Q1029	D-4	TPA9	A-1	TPA31	C-5
IC1007	B-5	IC1052	C-2	Q1007	A-3	Q1030	D-2	TPA10	B-3	TPA32	B-1
IC1010	C-4	IC1053	C-1	Q1008	A-3	Q1031	B-3	TPA11	A-3	TPA33	A-1
IC1012	D-4	IC1057	C-3	Q1012	B-3	Q1032	B-3	TPA15	A-4	TPA36	C-1
IC1022	B-3	IC1058	C-2	Q1013	B-3	Q1033	A-3	TPA16	A-4	TPA42	B-2
IC1023	A-3	IC1060	D-3	Q1014	A-3	Q1034	A-3	TPA17	A-2	TPA43	D-1
IC1024	A-4	IC1061	D-2	Q1019	A-2	Q1035	D-2	TPA19	B-2	TPA44	C-4
IC1026	D-2	IC1062	D-3	Q1020	A-2	Q1036	D-2	TPA20	B-1	TPA45	B-3
IC1027	C-5	IC1070	A-1	Q1022	B-3	Q1037	A-2	TPA21	B-1	TPA46	A-5
IC1028	A-3	IC1071	C-1	Q1023	A-2	Q1049	D-4	TPA25	A-4		
IC1030	D-3			Q1024	D-5			TPA26	C-4		
IC1031	D-1			Q1025	A-2			TPA27	C-4		

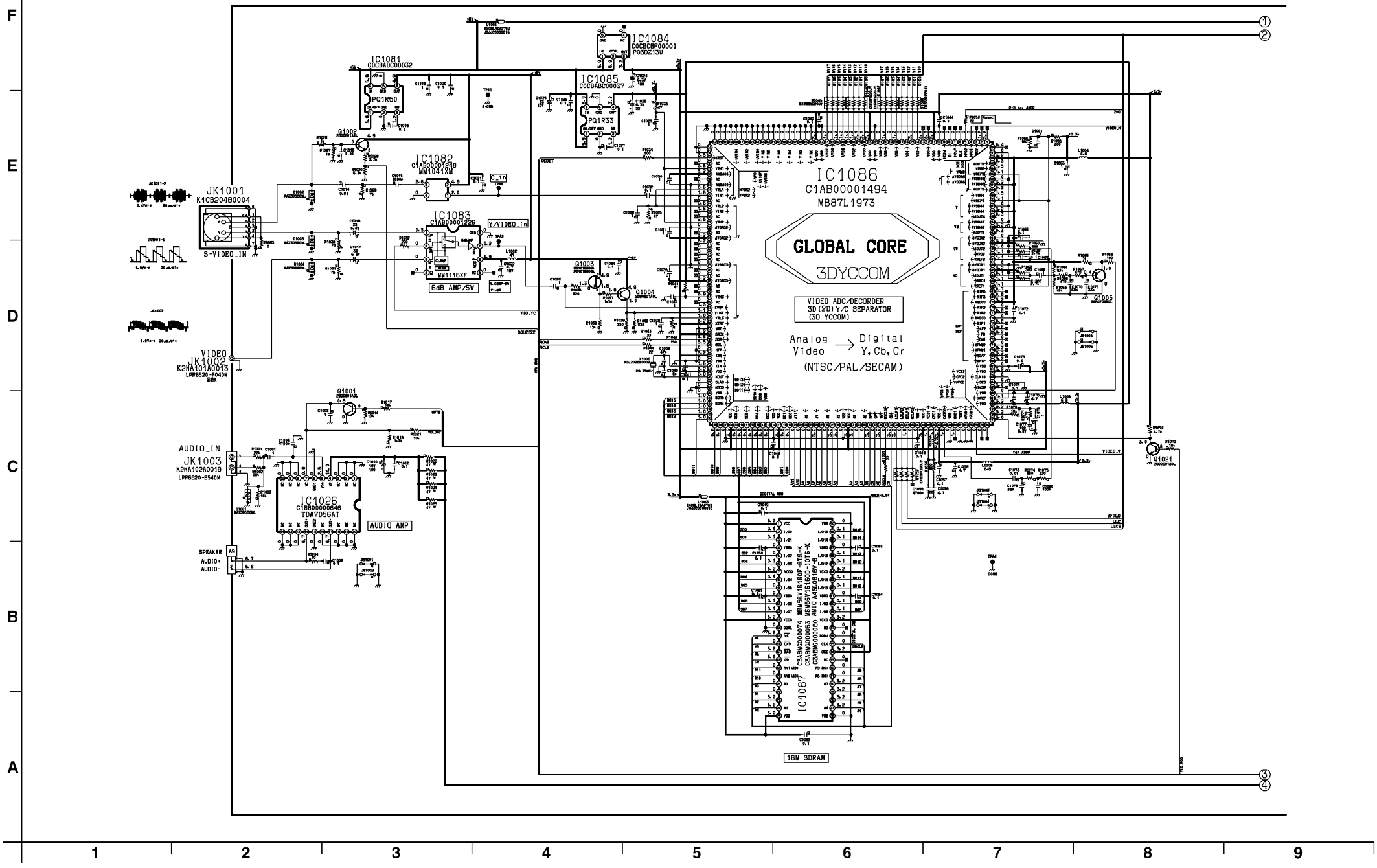
ADDRESS INFORMATION



F E D C B A

1 2 3 4 5 6 7 8 9

A-P.C.Board TXANP01VJJ8 (PT-LC75U/E, PT-U1X65) (1/5)



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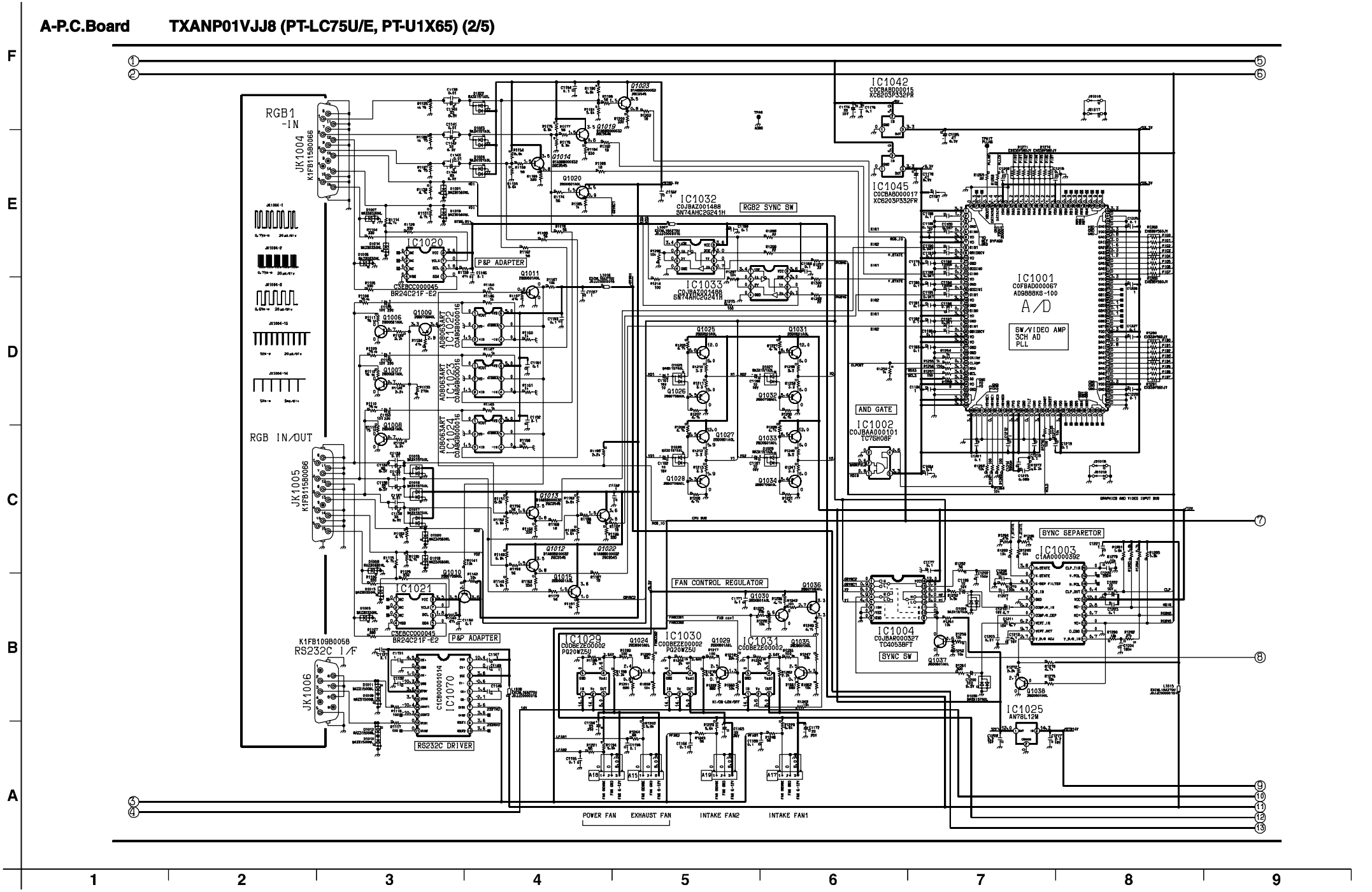
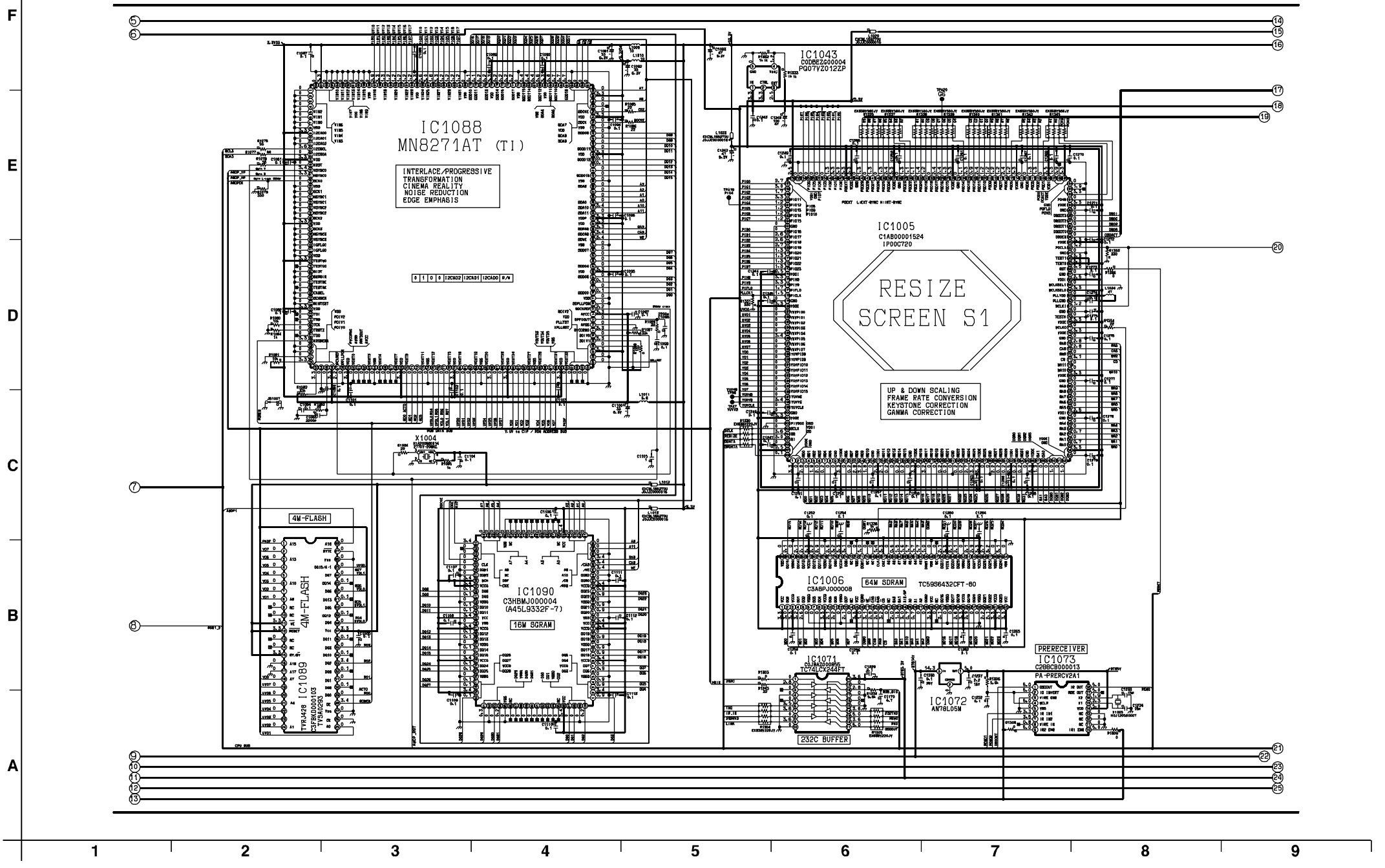


A-P.C.Board TXANP01VJJ8 (PT-LC75U/E, PT-U1X65) (3/5)



F E D C B A

1 2 3 4 5 6 7 8 9

A-P.C.Board TXANP01VJJ8 (PT-LC75U/E, PT-U1X65) (4/5)